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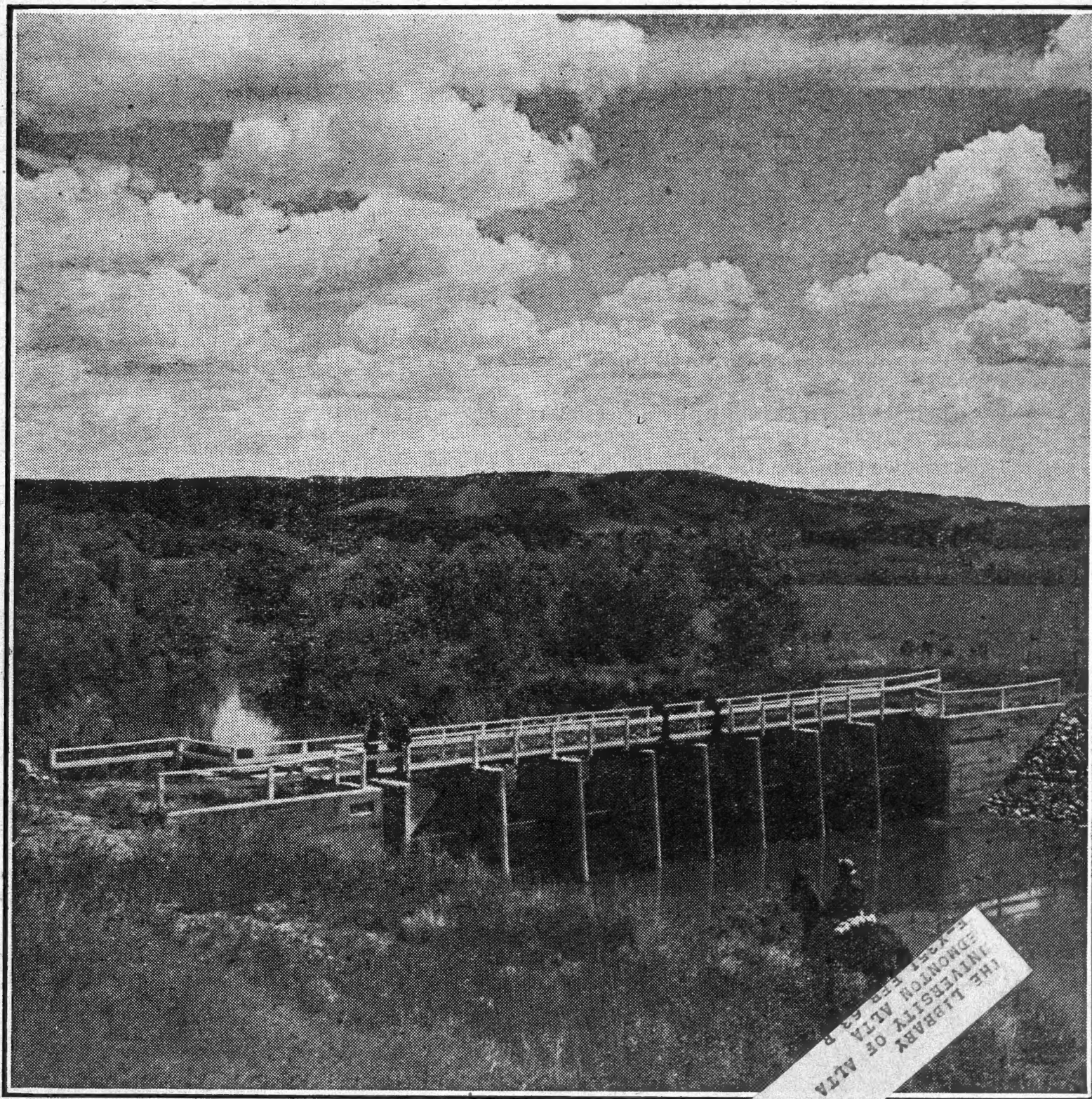
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*Alberta Review*

# Farm and Ranch Review

CALGARY, ALBERTA  
JUNE, 1948

VOLUME XLIV  
NUMBER 6



*In This Issue—*

## A PREVIEW of THE FAIRS

BARD  
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no.6  
1948

**T**HE Bureau of Industry and Commerce of the Province of Manitoba is this year continuing the survey of industrial resources of the Province's larger towns which it started last summer.

The survey, part of the government's long-range industrial program, is being undertaken to provide the Bureau with detailed information concerning the towns' industrial advan-

## Industry and Commerce Survey of Man. Towns

tages, and to help the Bureau compile a complete record of the various background facts required for its industrial development work, the Minister states. Results of the project will be available to firms desiring information on local facilities, building sites, natural resources, transporta-

tion, power, water, tax structure, labor supply, etc.

Representatives of the Bureau have just begun a comprehensive survey of the City of Brandon. Other towns visited since the survey started early in May include Garson, Lac du Bonnet, Great Falls, Rennie, Wawanesa, Hartney, Napinka, and Oak Lake.

By the first week of June, the surveyors expect to have covered Elkhorn, Foxwarren, Hamiota, Rapid City, and Rivers.

Other towns listed on this year's programme are St. Rose, Grandview, Roblin, Rosburn, Binscarth, Starbuck, Treherne, St. Agathe, Morris, Plum Coulee, St. Pierre, Dominion City, Emerson, Gretna, Stuartburn, Piney and Rosser.



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**when we listen through the other fellow's ears . . .**

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**Happily a Canadian characteristic, it's this understanding**

**which leads us to choose the path of moderation in all things . . .**

**moderation in our thinking, moderation in our spending . . .**

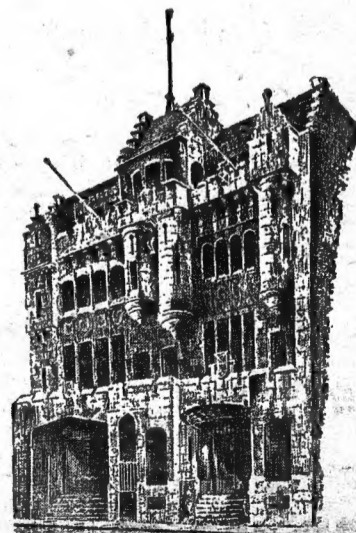
**moderation in our pleasure. For understanding makes us realize**

**that moderation benefits not only our own selves, but our**

**families, our communities and all of Canada.**

*Men who Think of Tomorrow  
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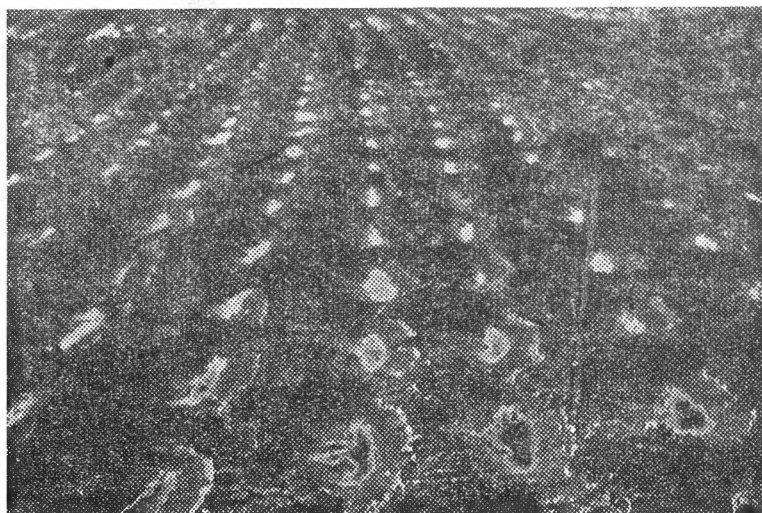
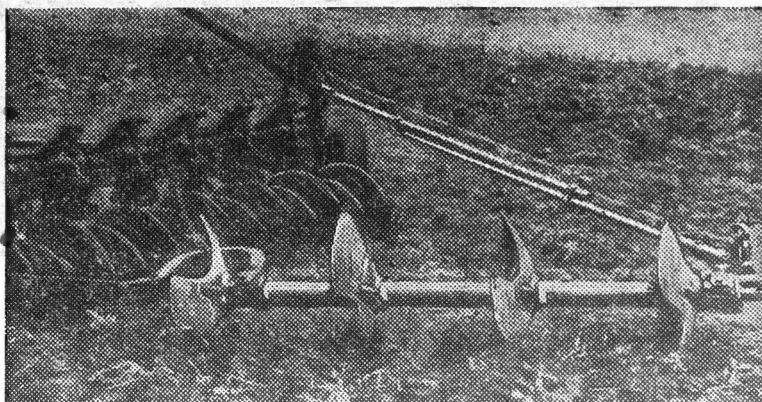
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# EATON'S

## Water-catching Plow Latest in Australia



The top picture shows the plow attachment. Below is how the new gadget leaves the land — all neatly saucered out to hold the rainfall and prevent run-off and erosion. According to the inventor, here's how the gadget works. The revolving, cut-away discs, throwing earth in the opposite direction to the plow, form the loosened soil into a series of basins. Each basin is about 16 inches long, 10 inches wide and nine inches deep. When completely filled, each basin holds about three gallons of water.

Whether this would be of value in Canada is undetermined. The inventor is an Australian farmer, A. G. Muirhead, of Byculla, Pitts-worth, Queensland. He has patented his invention in the U.S.A.

## University Announces Grant for Research

Dr. W. G. Corns, Assistant Professor of Plant Science, University of Alberta, announces that Naugatuck Chemicals Division, Dominion Rubber Company Limited, has made a substantial grant to the Plant Science Department of the University. The grant will be used to study the effect of different dosages of 2,4-D on flax in its various stages of growth. A study will also be made of the oil and protein content of the flax seed harvested from the treated plots. It is hoped to determine the optimum dosage and stage of growth when flax should be treated with the amine formulation of 2,4-D to give maximum results. The work will be under the direction of Dr. Corns.

## Pastures For Poultry

Good pasture, especially alfalfa pasture, is the cheapest and most efficient food that we can provide for poultry. Good pasture supplies the proteins, minerals and vitamins so essential to efficient brooding and rearing of our poultry. Where grass or grass mixtures are used for poultry pasture they should be mowed often to promote fresh tender growth. Coarse pasture is of little or no value to poultry.

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## Farm and Ranch Review

VOL. XLIV. No. 6  
CALGARY, JUNE, 1948

JAMES H. GRAY, Editor

MARTHA OLSON, Home Editor

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414 Metropolitan Bldg.,

Toronto, Ont.

W. H. PRIBBE, Representative

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Our cover this month — The Craven Dam, part of the Irrigation development of the Qu'Appelle Valley, National Film Board photo.

Published Monthly by  
Farm and Ranch Review Limited  
Printed by Western Printing & Litho-  
graphing Co. Ltd.

Graphic Arts Bldg., Calgary, Alta.  
Entered as Second-class Mail Matter  
at the Post Office, Calgary, Alta.

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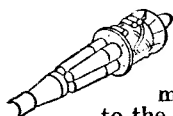
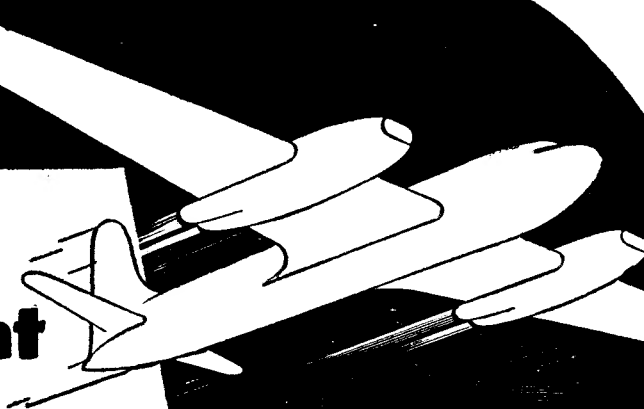
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# How jet propulsion creates employment for Canadians



The principle of the gas turbine has long been known but its most recent application to the jet engine is one of the sensational developments of our time. One of the main problems in these engines is to get metals to stand up under the intense heat and stresses involved.

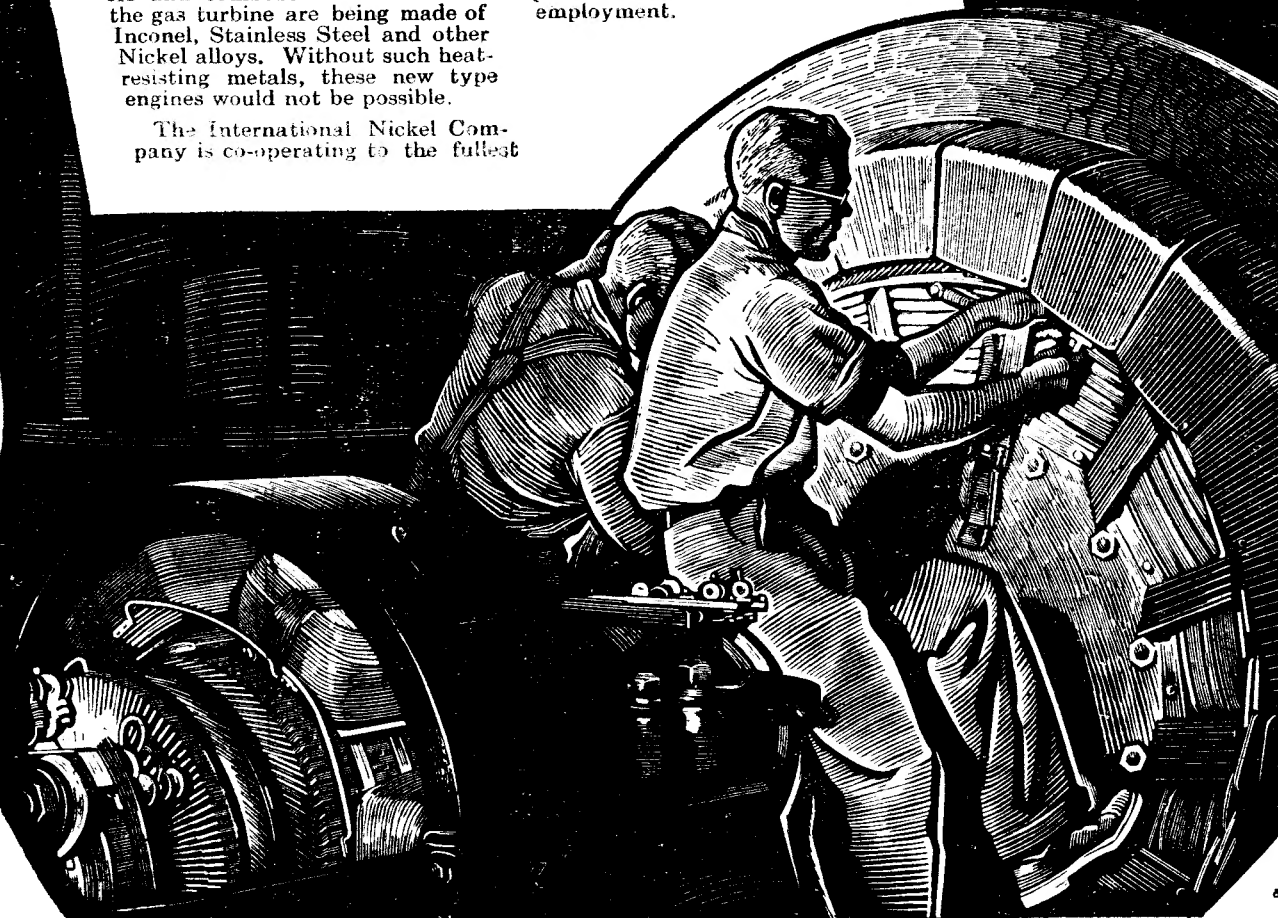
Development work on the gas turbine is now world-wide. Much progress in design and development has already been made in Canada.

To stand up under the terrific stresses at high temperatures, the important parts of turbines, blowers and combustion chambers in the gas turbine are being made of Inconel, Stainless Steel and other Nickel alloys. Without such heat-resisting metals, these new type engines would not be possible.

The International Nickel Company is co-operating to the fullest

extent with the technicians who are developing these new engines, and placing all their technical knowledge regarding Nickel alloys at their disposal.

When these new engines are brought into volume production thousands of Canadians will be employed in making this entirely new source of power available to industry and transportation. This and numerous other present-day developments will provide new markets for Canadian Nickel, and so provide jobs for the thousands of men employed in the Canadian Nickel industry. Thus does research develop better products, create more employment.



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# Farm and Ranch Review Editorials

## The People Of The West Are Going Through The Wringer

THE full measure of the blunder committed by the Abbott-Howe austerity programme is beginning to penetrate eastern Canada. The Montreal Star, which went all out in supporting the scheme at the beginning, recently became impatient and demanded answers from the Government on a number of questions that are plaguing it.

Government sources in Ottawa, obviously reluctant to confess to error, are now busily engaged in preparing public opinion for a long siege of austerity. All talk of the temporary nature of the measures imposed has evaporated.

For ourselves we are sick and tired of the word "austerity". The government has not adopted "austerity". It has adopted *protection*. It has gone protectionist to an extent far beyond anything envisaged by the late R. B. Bennett. None of the fancy explanations being pumped out of Ottawa can disguise this fact. It is being "explained" that one reason why the drain on American funds continued during the winter was the large expenditures made by eastern manufacturers for American machine tools and equipment.

Of course! By a combination of outrageously high excise taxes, and outright damming up of imports through exchange control, the Government encouraged the vast expansion of Canadian manufacturing capacity in eastern Canada. On top of the over-expansion resulting from the war, we are over-expanding to counteract our exchange problems. And we are making the ultimate collapse of the economy more certain than ever.

Will these over-expanded industries, using machines bought at to-day's prohibitive prices, be able to compete in the markets of tomorrow? To ask the question is to answer it.

At the same time, we are being told that we must prepare for a lowering of our standard of living, that we cannot go on as we have been doing. We have to go "through the wringer."

That is it, exactly. This country could not begin to support the productive capacity built up during the war. It never intended to. Manufacturers were encouraged to expand during the war. But they were given special tax concessions to enable them to get back the cost of their machines. When peace came the intention was to scrap this unnecessary capacity. Instead it was kept in operation, and in operation used tremendous sums of American funds to buy materials. It exported

its finished goods and got paid in credits or useless foreign currency.

Something had to give. Somebody had to go through the wringer. The people of the West were elected. Instead of trying with every possible means to expand trade with the United States, to increase our exports to the United States, the Government took the opposite course. It slammed the door on a lucrative market for western products with one hand, and undercut our standard of living with the other.

We need mention but one example. To the farmers of the West an automobile is a dire necessity. Without a car most farmers simply cannot function. They used their old cars until they almost fell apart during the war. When the opportunity came to replace them, they were hit over the head with a tax probably unequalled in Canada. A farmer who planned on buying a \$2,000 car was handed a tax bill for \$645 which had to be paid before he could get a car.

Given the opportunity, he could have shipped eight steers to the States and traded them for a car. The Government refused to permit that to happen. When he tried to trade the income from his eight steers in Canada for a car he discovered that the Government was demanding three or four steers for itself in return for giving him the privilege of buying a car. And at Canadian cattle prices it took 12 or 15 steers to pay for the car in addition to the Government tax.

A Customs Union is no permanent cure-all for all our problems. But surely it is far and away superior to the kind of a programme foisted upon this country by the minister of finance and his brain-trust.

★

## The Abbott Budget In Theory and Practice

THE budget brought down by the Hon. Douglas Abbott has sent even his warmest journalistic friends into fits of damning-with-faint-praise. In maintaining the great bulk of Federal taxes at present extreme levels, Mr. Abbott has been described as showing unprecedented courage. We rather lean to a description of our own — unprecedented persistency in error.

We are not quarreling with the theory of cyclical budgets. Under this theory, which has been put into practice with some measure of success in Norway and

Sweden, taxing policy is tuned to the business cycle. When times are good, taxes are kept at a high level and government expenditures are cut to the bone. When times are bad, taxes are lowered and government expenditures increased. Thus in good times governments pile up surpluses to be used when times are bad in providing employment, and stimulation to business.

That is the theory. It is just the reverse of the policy followed in Canada during the depression. Where we quarrel with Mr. Abbott is not over theory, but over practice. His emphasis in practice is all wrong. Not only are taxes kept up, but government spending is also drastically reduced in such times as these, under the cyclical theory. The Government keeps taxes up, but does nothing to reduce its own free-handed spending of the taxpayers' money. Instead of reducing the civil service rolls, as it should do, it juggles around and keeps all Government staffs as close as possible to wartime peaks. Part of the juggling technique is to load all departments with thousands of so-called "temporary" employees.

We have fought a war. Wars have to be paid for. We have to pay for this one. Hence there is no particular point in hearkening back to the pre-war level of Government taxation. But if the cyclical budget system is to work an attack must be made upon Government spending, particularly upon a vastly over-expanded government payroll.

In the next fiscal year, the Dominion Government will spend \$2,175 millions. That, curiously enough, is about equal to the entire income of all the farmers in Canada for 1947. The cash value from the sale of all farm products in 1947 was \$2,002 millions. In short *all* the wealth that is produced by *all* the farmers of Canada in one of the best years they ever had is not sufficient to pay for the cost of operating the Canadian Government.

During the last six months, the Canadian people have heard many sermons from the ministers of state about the necessity of reducing the Canadian standard of living. We have been told that we are living beyond our means. We have never agreed with the wisdom of measures adopted to reduce the Canadian standard of living. But we do suggest that when we reach the stage where the cost of government is absorbing all the wealth produced by the whole of the Canadian agricultural population, it is time the cabinet listened to some of its own advice.

Certainly the people of Canada would pay the taxes imposed upon them with better grace if they had any confidence

(Editorials Continued on Next Page.)

# Farm and Ranch Review Editorials

(Continued)

that the money is being spent wisely. How can they have such confidence in face of the Government's picayune and half-hearted efforts to practice even a modicum of economy?

One of the factors giving the minister of finance concern is the great splurge of capital investment in Canada. Labor is being diverted from production of goods to production of factories and office buildings. But is not that exactly what the Government set out to do with its protectionist scheme to keep out American imports? Of course it is.

If production is what matters, surely thousands of unproductive hands now half-employed in the civil service could be spared. What this country needs is more people producing wealth, and fewer of them enjoying a free ride on the backs of the producers.

★

## End Of The Honeymoon?

WELL it was fun while it lasted, and it lasted a long time, but the marriage of urban trade unionists and western farmers in the C.C.F. seems headed for the rocks. As Frederick Engels might have said, we approach the negation of the negation. The seeds of its own destruction, inherent in the C.C.F. from the beginning, are beginning to sprout.

The breakdown comes from the inevitable clash of opposite interests. The Canadian Congress of Labor, long a C.C.F. stronghold and a body which has chosen the C.C.F. as its political arm, is in favor of the freight rate increase granted by the Transport Board. In a recent issue of its official organ, The Canadian Unionist, the C.C.L. attacked the seven provinces which appeared in Ottawa to oppose the increase and to demand a royal commission into freight rates.

The railway unions, and one of the largest is affiliated with the C.C.L., are now considering strike action to enforce demands for higher wages. They hope to obtain a large chunk of the \$70,000,000 the increased freight rates will bring the railways. But Mr. T. C. Douglas, the C.C.F. premier of Saskatchewan, united with all the other western governments to oppose the increase. Thus we have one arm of the C.C.F. attacking another. The C.C.F. unionist say in effect that rates and wages should go up. The C.C.F.

agrarian wing, though remaining silent about wages, is vigorously opposed to the rate increase.

★

## Barbara Ann Scott And Johnny Brown

THE best skaters the world could produce didn't come very close to toppling our Miss Scott from her figure-skating throne. But when she ran into our income tax she was given a nasty spill. Indeed, when she discovered the vicious grab of the income tax for the earnings of young enterprisers, she almost gave up the idea of capitalizing on her skill.

So great is her ability, so compelling her charm, so universal her appeal, that Barbara Ann, by turning professional, might have earned \$250,000 a year for the next two or three years. When she discovered that the Government would confiscate most of her earnings through its income tax she said that she had changed her mind about cashing in on her ability.

She had worked hard to become a champion. She had practiced hour after hour, day after day, week after week. She had been perfecting her skating with an endless grind of practice for five years. There must have been many times when skating ceased completely to be fun and became drudgery. But she kept at it, worked hard and achieved success. With success came an opportunity to earn money that would bring security to herself and her mother for life. Or so it seemed, until she discovered that the income tax would take eight out of every 10 dollars she could earn.

Barbara Ann is an extreme case. But what is true of her is true of thousands of other young Canadians in lesser degree. They are prevented, by our income tax laws, from building up any kind of capital during their most productive years. Money that would once have been saved out of income, to become a nest egg for the future, now goes to the government in income tax. That applies to thousands of Canadians who have had the bad luck to reach their most useful and productive years in this decade.

It applies to Johnny Brown, the boy on the next farm. Farming has changed. To be a farmer today requires capital. It requires land worth \$15,000. It requires

\$5,000 worth of machinery. It requires trucks and barns and spray equipment. In the old days, Johnny Brown could take a chance. He could make a down payment on a farm and if he got one bumper crop could almost pay for his place. That today is impossible. If he should happen to get a big crop the first year, the income tax will take what was formerly used to pay on his mortgage.

How are we going to keep people on farms in Western Canada? Particularly, how are we going to make it possible for the young people to get a start on their own? The high capital cost of farms today makes it difficult enough for young men to become farmers. The income tax makes that difficulty almost an impossibility. It is about time the income tax authorities awoke to this fact. Or are they content to have the agriculture of the West evolve into corporation farming and tenant farmers? We'd like to know.

★

## Who Are The Tax Dodgers?

FOR too many years it has been the custom of the people in the east to regard Western Farmers as a race of tax-dodgers. The income tax department recently released figures to give the lie to this canard. If there are income tax dodgers among the farmers of Canada, they live largely in the provinces of Ontario and Quebec. Here are the figures, in tabulated form, for all provinces for the ear 1946-47.

Province	Returns filed	Number Assessed	Amount Assessed
Prince Edward Is.	1,322	124	\$ 24,858
Nova Scotia	497	119	62,117
New Brunswick	401	190	38,493
Quebec	19,830	690	94,707
Ontario	28,909	6,970	1,969,576
Manitoba	31,742	9,836	2,126,901
Saskatchewan	46,616	15,583	5,579,921
British Columbia	6,759	1,588	539,973
Alberta	74,675	16,312	3,921,187
Totals	210,751	51,412	\$14,357,033

Fewer farmers in Ontario and Quebec filed returns than in any of the Prairie Provinces. Does anyone believe that in the whole of Quebec only 690 farmers were liable to income tax? Or only 6,970 in the province of Ontario, when more than 16,000 Alberta farmers were taxed and more than 15,000 in Saskatchewan? More people live in rural Ontario than the rural residents of Alberta and Saskatchewan combined.

If Federal Income Tax department is looking for tax dodgers, it is about time it got busy in its own back yard, in Ontario and Quebec.

By NORMAN FLANDERS

WINDSOR: Have you been exploding around about the price of automobiles, or only wondering why prices are so high? I've got at least one answer for you — the Canadian austerity program. Here, for example, are the actual figures of what the Abbott-Howe system charges every Canadian who buys a new automobile today.

Let's take for example a Ford sedan of the 1948 vintage. It had a list price of \$1,415 at the factory. On to that went the 8 per cent sales tax to the tune of \$89. Then the excise tax of \$279 was added. Thus on this car, which had a retail delivered price at Windsor of \$1,798 the Government took a total of \$368.

But when it comes to the new models, which being new cars in de-

sign and in component parts are higher in price, that whopping tax seems bargain basement stuff by comparison.

	Factory List Prices
Mercury Sports Sedan	\$2,065
Mercury 6-Pass. Coupe	2,045

How does that compare with the American prices and American taxes. The figures for the new models are not available here at the moment. But they are for the older models. Let's take the Ford Sedan mentioned above that had a Windsor list price of \$1,415.

## The Automobile Taxes And New Car Prices

Here are the actual figures on the New Mercury now being displayed across the country:

	Sales & Excise Taxes	Total List Price at Windsor Incl. Taxes
	\$645	\$2,710
	636	2,681

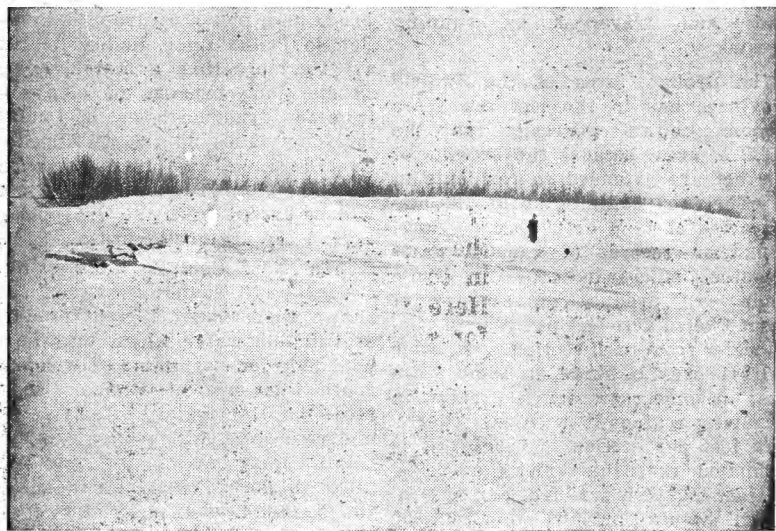
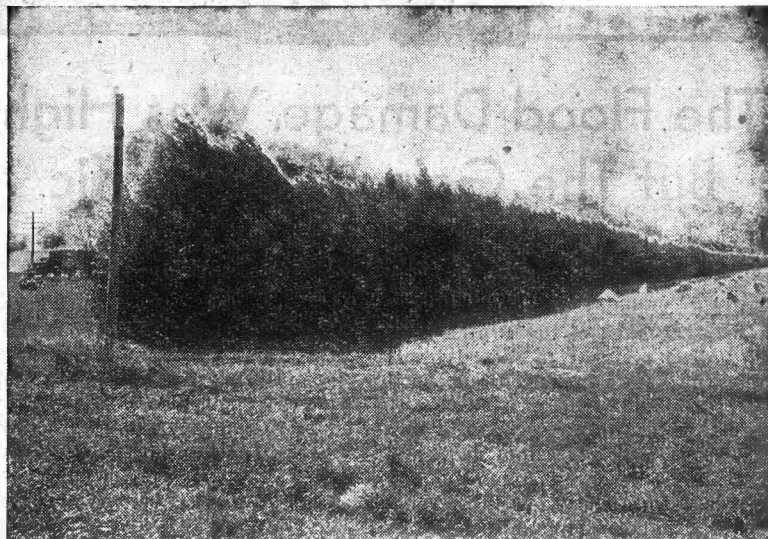
Across the river in Detroit, the list was \$1,350. On that the purchaser paid a grand total of \$75.56 in federal taxes, including the federal tax on tires. In addition, some of the states have sales taxes. Michigan taps each car sold there three per cent. That would add another \$100 to the cost of the car to the Detroit resident.

The Canadian tax on automobiles today goes a long way to explain why they are being priced out of reach of the citizens of even moderate income. The heavy excise taxes imposed last fall were justified as a measure to conserve foreign exchange. Now according to some government spokesmen they are being continued as a means of "siphoning off purchasing power and preventing inflation."

This whole tax picture drew a blast recently from Mr. Douglas B. Greig, president of the Ford Motor Company. With the manufacturers and importers now completely hedged in by import restrictions, he argued that the need for this tax had ceased to exist. He contended that few other Canadian consumers were called upon to pay such a stiff tax bill as the automobile user.

## Beautifying The West With Highway Hedges

Manitoba Proves that Utility and Beauty Can Work  
Hand in Hand along its Highways.



Here are two seasonal pictures of Manitoba's highway hedges. At the top is a caragana hedge in summer. Below is a shot of the same stretch in winter with the snow piled better than seven feet high.

IN the last decade, Manitoba has planted 202 miles of hedges along its highways and is now thoroughly sold on replacing unsightly snow fences with trees wherever possible.

Several thousand miles more will have to be planted before the job is completed. But the results so far have been so encouraging that hedge planting has been given a permanent place on the public works program.

The mature hedge shown in the pictures happens to be caragana. It is the most popular but by no means the only bush used. It is quick growing, hardy and gives thick stand. However it does not do well in alkali soils, or in low lying ground where water is likely to collect. There the willow is more satisfactory.

Some very good results have been obtained by the use of non-suckering lilacs, hawthorns, and other berry shrubs. In addition to providing excellent wind breaks to prevent drifting of snow over highways, the berry bushes supply winter feed for native grouse, pheasants and other birds.

Experience has shown in Manitoba that the hedges should be placed at least 125 feet from the limit of the right-of-way. In certain cases where there are serious cuts in the road, it has been found best to place them 200 feet back.

Planted parallel to east-west highways, the hedges provide perfect road protection. However in the case of north-south roads they are much less useful. They tend, in that case, to become funnels that create snow

drifts across highways. A solution to this difficulty is being sought in the planting of periodic east-west hedges to break the wind.

Getting the support of the farmers along the highways was a major problem in Manitoba. The farmers claimed that the hedges caught and held so much snow in winter that the land between the hedge and the highway could not be planted in the spring. This argument has been met by demonstrating that the hedges provide a most desirable area for growing feed and hoe crops which can be planted later. Crop production on the hedge protected area is almost a certainty.

To compensate farmers for the land taken by the hedge, farmers are permitted to crop the road allowance. The farmers get more land to plant instead of less while the highway department benefits by having its road edge kept neat and trim.

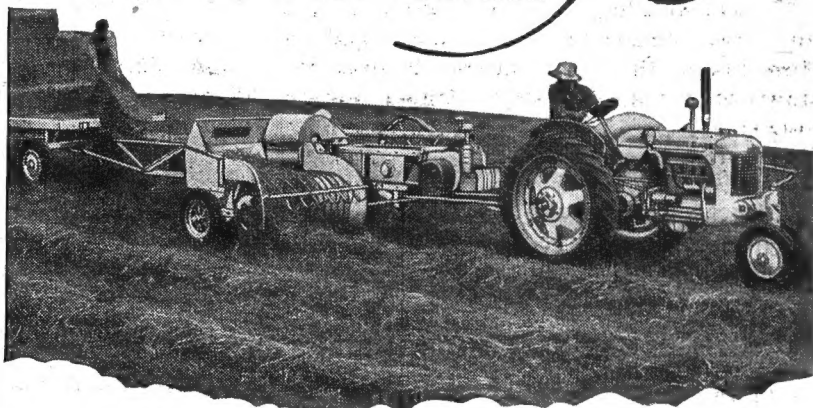
The cost of construction of the hedges is small. The first cost, for shipping charges, works out to only one tenth of a cent per foot. Cultivating and trimming the hedges costs about 1.4 cents per foot per year. As the hedges mature the cost of maintenance drops.

To produce the best hedge, the first year's growth is trimmed back 50 per cent. Similarly in the next two years the new growth is also cut back by half. This forces the plants to produce more branches near the base and makes the mature hedge a much better wind-break.



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● Every pound of digestible protein and carbohydrate you can preserve in your hay saves precious pounds of grain and purchased concentrates. Every hour of needless exposure in swath or windrow robs hay of nutrients, color, palatability and vitamins.

With a Case Slicer-Baler you can start baling the minute that hay is cured enough to keep, hustle it into the safety of the bale before bleaching and shattering take their toll. You run less risk of damage by rain and dew.

It's the baler so simple that boys operate it, so moderate in cost that most any farmer can afford his own. It takes hay from windrow to wagon in one swift operation—no heavy lifting from the ground. It uses the strong, standard wire tie—builds firm bales that stand up under grapple-hook hoisting, rough handling and long hauls. It's so popular that demand runs ahead of increased production.

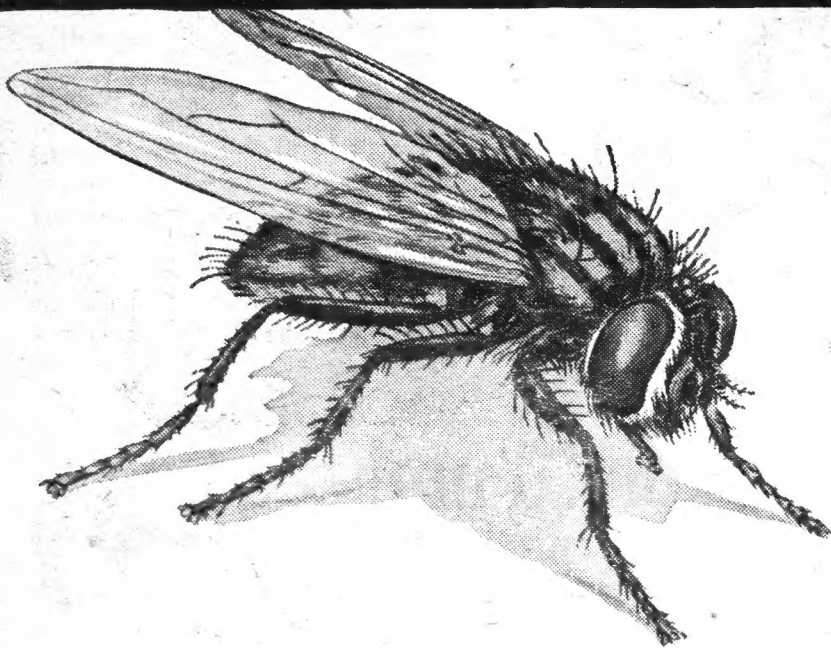
**New! Roller-Bearing Side Rake** with needle-type roller bearings, dirt-sealed and pressure-lubricated at every vital point on reel bars and tooth-angle control. Roller-bearing rear wheels, too. See your Case dealer. Send for booklet "High-Protein Hay," also folders on Slicer-Baler, mowers, rakes, any implement or size of tractor you need. J. I. Case Co., Calgary, Edmonton, Toronto, Regina, Saskatoon, Winnipeg.



# CASE



# HE CAN COST YOU 50 LBS. PER ANIMAL



FROM field experience, livestock authorities report that cattle gain an extra 50 lbs. per head in one season when freed of flies, while milk production is increased as much as 20%. Rid your livestock of costly flies with Green Cross field-tested products... the leaders in modern pest control.

## GREEN CROSS 50% MICRONIZED\* DDT CONCENTRATE for BARN AND LIVESTOCK SPRAY

"The safest, most economical method of using DDT yet developed for the farm," say livestock authorities. Green Cross Micronized DDT Concentrate is a wettable powder of outstanding effectiveness. Mixed with water or whitewash, it makes an ideal spray for barns, hog pens, etc., and keeps killing flies and other pests for nine weeks or more.

## GREEN CROSS LIQUID LIVESTOCK SPRAY

An ideal spray for dairy cattle, especially at milking time. Contains a potent fly repellent and a quick-killing insecticide. Gets rid of flies and other buzzing and biting insects in double-quick time.

Be sure  
to Look  
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## THE SIGN OF MODERN PEST CONTROL

THE CANADA PAINT CO. THE LOWE BROTHERS COMPANY  
LIMITED LIMITED  
THE MARTIN-SENOUR CO. THE SHERWIN-WILLIAMS CO.  
LIMITED OF CANADA LIMITED



## The Flood Damage Was High But The Gain Was Terrific

Here is a round-up of what the 1948 Floods  
Will do for Western Canada.

WATER supplies in the so-called Drought Area of the Prairie Provinces were restored to record levels by melting snows in March and April of 1948. Hundreds of lakes and streams, which were remembered only by the very early settlers, came to life again. Districts which have been recognized for twenty years as being part of Canada's potential dustbowl are now dotted with marshes and lakes and traversed by running streams.

The drought area of the Prairie Provinces has in the last ten years become known generally as the P.F.R.A. area, because the benefits of this act are extended to residents in it. The area contains about 128,000,000 acres of land or 200,000 sections. Long-term records of various water resources offices indicate that these lands will produce an average of about twelve acre-feet per year of run-off water from each section. In some years it may be more, in some years less; in some regions it is greater, in the driest regions it is at least twelve-acre feet per section. In 1948 it is estimated that this run-off averaged at least eighteen acre feet per section, which would amount to 3,600,000 acre feet for the prairie area. Expressed in tons, this water requires twelve figures.

### The Changed Face

The appearance of the prairies has changed completely for the season. Where dry lakes, white alkali flats, and parched channels have appeared for many years, there are now immense bodies of blue water and running creeks.

South-east of Regina a rich area of agricultural land which was a marsh at the turn of the century, was homesteaded some years later, and has been cropped for at least twenty years, has now been restored as a marsh. Much of it will not be cropped again for several years.

In the Weyburn district creeks which have not discharged any great volume of water for at least twenty-five years were miniature torrents.

In south-western Saskatchewan, Lake Johnstone, usually dry in August of each year, is back at the level of 1905.

Between Regina and Saskatoon, Last Mountain Lake extends as a blue expanse of water for over seventy miles. Before the turn of the century this lake was navigable. Boats of fair size plied up and down it in the early years of settlement. In the 1930's it receded to little more than a glorified slough. Its level was raised four feet in April of 1948, which required a quarter of a million acre-feet of water. It is still rising from the controlled flow of the Qu'Appelle River above Lumsden, with such tributaries as Moose Jaw Creek and Wascana Creek.

In 1939 the P.F.R.A. constructed a dyke across the Qu'Appelle River north of Moose Jaw for the purpose of diverting the flow of Moose Jaw Creek into a large marsh, known as Buffalo Pound Lake, in the valley of the Qu'Appelle a short distance from Tuxford. The most optimistic view of the development was that some 35,000 acre feet of water might eventually be gathered in the lake. Over 70,000 acre feet were trapped in 1948. Buffalo Pound Lake, instead of being a little more than a marsh, extends as one long expanse of blue water from the dyke north-east of Lumsden for forty miles up the Qu'Appelle to Eyebrow Lake, another marsh a short distance from Tugaskie. This water will be passed down the Qu'Appelle to Long Lake during the season.

In East Central Alberta, Berry Creek and Sounding Creek have shown themselves as great producers of valuable water which may be impounded for irrigation development south and east of Hanna. In the Medicine Hat region, lakes, marshes, and reservoirs, which have existed on a thin supply of water for many years, filled to overflowing. Clear Lake in the Nanton-Stavely district is typical of all others south of Calgary; it is filled.

### Damage Was Extensive

It was to be expected that run-off water of the quantities which occurred in 1948 would do considerable damage to both privately-owned and public reservoirs and works. Dams failed, spillways washed out, railways were damaged, roads were breached.

In the aggregate the damages will amount to millions of dollars; but each individual damage is offset by a benefit of greater value. The dams which failed did so because the regions in which they were located were completely inundated. Water saturated the grain fields to depths of eight and ten feet and more. The spillways which washed out marked reservoirs which were completely filled with water. Railway damages quite frequently occurred on streams which had not carried water in any great volume for years. The fields adjoining damaged roads were seldom in better condition for crops.

Many urban centres of Western Canada depend for domestic water supplies on underground reservoirs. Such reservoirs usually consist of little more than a large deposit of sand or gravel into which surface water seeps, is stored, and from which it is pumped for urban use. These sand pockets depend upon surface run-off to be re-charged. During the last thirty years there have been times when no run-off occurred for two and three years in succession. Water levels dropped alarmingly. The 1948 run-off has re-charged to the maximum these underground reservoirs.

(Continued on page 9)

(Continued from page 8)

It is quite true that farmers of Western Canada are perturbed about the damages and delays caused by floods this year. In general, however, they make no complaints. They have a feeling of immense relief in knowing that the "Good Old Days" of

water surplus can return, and have not been replaced entirely by a constant threat of wind and dust. They much prefer the flooded lands to the black blizzards of the 1930's. To many of them the so-called floods have restored confidence.

## Add Brome Grass Virtues—It Survives Flooding

**H**EAVY runoff in the spring of 1948 with resulting flooding of many farm pastures has caused concern among farmers about their stands of grass.

Brome grass stands among the leaders of grasses in its ability to tolerate flooding. Under average conditions it will live through flooding up to four weeks or a month, and under some soil conditions will live for a much longer period. Where flooding conditions extend beyond four weeks reed canary grass and timothy will outlive brome.

A mixture of brome grass and alfalfa seeded at 10 and 2 pounds per acre respectively, has proved the most satisfactory mixture for general use on areas not subject to long flooding and free from alkali. Recent experiments indicate that creeping red fescue added to this mixture will maintain more satisfactory grazing throughout the entire growing season.

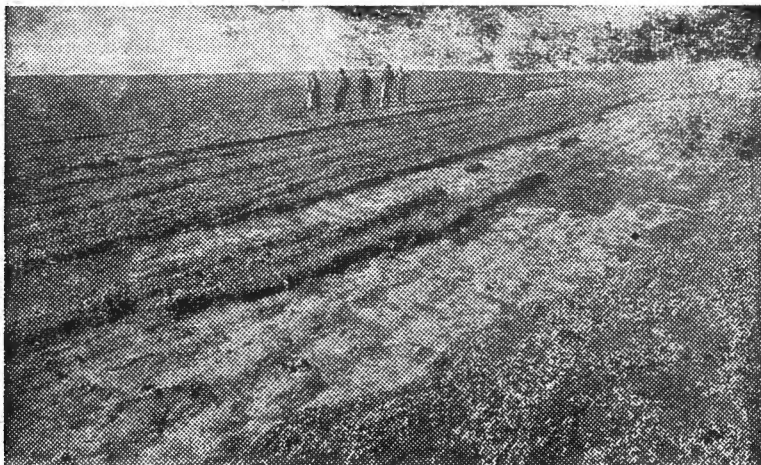
Brome grass and alsike clover

seeded at 10 and 4 pounds per acre respectively, is a suitable mixture for wet areas subject to flooding up to four weeks. This mixture has also given excellent results on wet peaty areas. Where flooding extends beyond four weeks, a mixture of timothy and reed canary grass, seeded at 4 pounds per acre each, is recommended.

Mixture recommendations for alkaline soils depend upon the degree of alkalinity and the duration of spring flooding. Where the soils are free from excessive alkali, mixtures recommended for various degrees of flooding are as follows:

1. Where flooding exists from 10 to 14 days — brome (10 lbs.), timothy (4 lbs.), alfalfa (2 lbs.), and alsike clover (1 lb.).
2. Where flooding persists up to 28 days — brome (10 lbs.), timothy (4 lbs.), and alsike clover (2 lbs.), and
3. Where flooding extends for more than 28 days — timothy (4 lbs.), and reed canary grass (4 lbs.).

## Biggar Farmer Acts To Stop Wasteful Soil Washing



By F. A. WIRT,

**I** SAW an outstanding example of soil loss on the Raymond McHargue farm near Biggar, Saskatchewan last July. The seriousness of the loss of valuable top soil is indicated by photographs taken on this farm following several heavy rains. At least three inches of this "black gold" were washed away from some spots of the most seriously eroded field.

This devastation did not take place on hilly land as might be supposed but on a gentle slope. The extent of the loss can only be fully realized when we recall that it requires approximately 100 years of vegetative cover to replace the loss of one inch of top soil. As might be expected for Western Canada, this land, so badly eroded by rains, is also subject to considerable wind erosion.

Mr. McHargue, fortunately, is taking steps to protect his land against both the wind and water. At least 140 acres of good gumbo land had been seriously damaged before Mr. McHargue took over the land. He plans to protect the soil in the future by farming it on the contour, thus throwing up barriers of ridged earth against the forces of both wind and water erosion and will also adopt

other advanced farming practices to preserve his land.

Many other farmers of Western Canada are becoming more and more alert to soil losses and are starting to adopt new soil and moisture conservation practices. Considerable interest is being shown in stubble mulch farming in which a goodly portion of the previous crop residues are left on the surface during the tillage and seeding operations. Others are practicing strip cropping both in straight strips at right angles to prevailing winds and contour strips as required by the lay of the land. Stubble mulch tillage on the fallow strips gives added protection.

Even pasture lands are showing the results of severe erosion. Animal paths along fence lines which run up and down hills instead of around the hills have started deep gullies. The corrective measure for this is to avoid running fences up steep hills and to avoid overpasturing. Many of our pastures would be much more permanent if only one cow were permitted to graze where five cows grazed before.

(Mr. Wirt, who is advertising manager of the J. I. Case Co., spent considerable time in the West last year.)

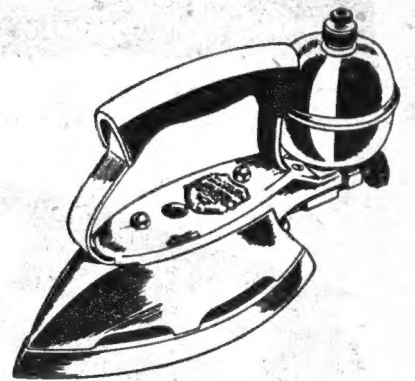


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TO IRON  
IN 1/3  
LESS TIME!**

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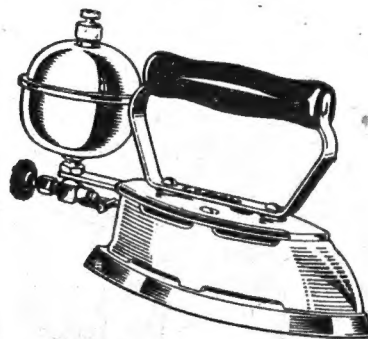
**Coleman**

**SELF-HEATING IRON**



Now ironing *can* be easier! You save hours of time, miles of steps... yet make shirts and other laundry look smooth and fresh with a Coleman Self-Heating Iron. Lights easily, heats quickly... easy to use. Makes and burns its own gas from kerosene... stays hot no matter how fast you iron. Does a big ironing on less than a cup of fuel.

*Easy Gliding--Easy Guiding*



Perfectly balanced, it's exactly the right weight for easy, comfortable ironing without bearing down. The big, mirror-smooth ironing surface lets it glide and guide smoothly, swiftly... with a minimum of effort. Also made in an instant-lighting gasoline model, as shown at left. Ask your hardware or general store for a Coleman Self-Heating kerosene or gasoline Iron demonstration... today.

**FREE** colourful descriptive folder tells all about these time and labour-saving irons! Write for it—use this coupon.

**Coleman**

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Gentlemen:

Please send me, without obligation, the FREE, illustrated Coleman Iron Folder postpaid.

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**MAKE 'EM LAST LONGER!**

**SURE, EVEN POPLAR. TREATED WITH OSMOSE WILL LAST 10 YEARS OR MORE!**

Yes... any post, even Pine, Spruce, Poplar and Willow off your own property can be preserved with "Osmose Special Fence Post Mixture." Treat the ground line only and make the whole post last 3 to 5 times longer for 3c to 4c per post. The savings in time and material are tremendous. 'Osmose' is time tested and used extensively, under all soil conditions, by large power and telegraph companies. It really works to stop rot, even on green posts. Your dealer can supply you.

**GOOD ALL AROUND FOR ANY WOOD IN OR NEAR THE GROUND**


**NEW EASILY APPLIED MIXTURE**

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FENCE POST MIXTURE  
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YOU GET QUICK RESULTS FROM FARM AND RANCH ADS.

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**PROTECTS ALL MACHINERY**

**P.A.M.**

**5 COLORS**

**MARSHALL-WELLS**

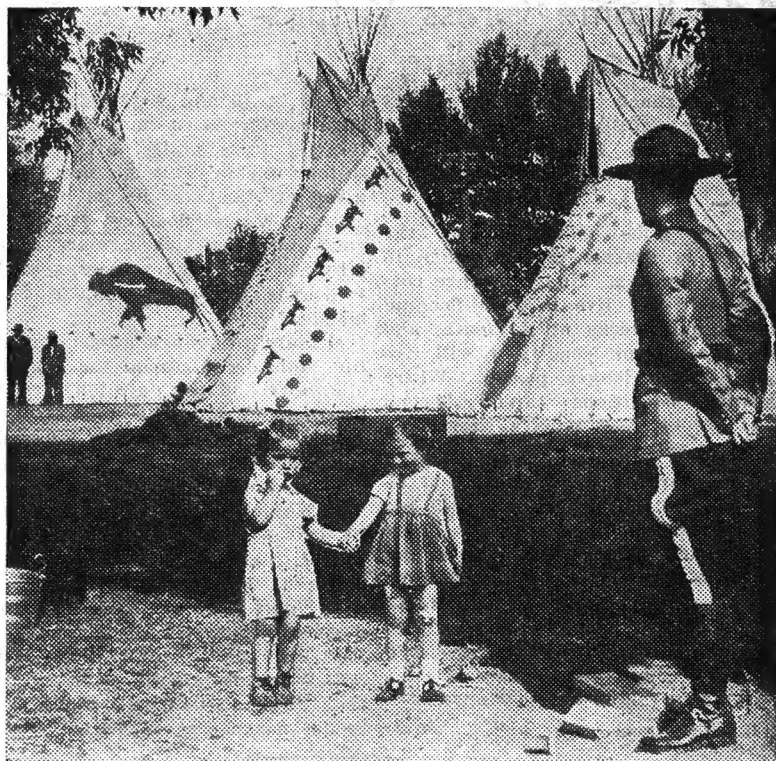
**HARDWARE MARSHALL-WELLS STORES**

**SOLD BY MARSHALL-WELLS DEALERS**

**MARSHALL-WELLS**  
PAINTS · VARNISHES · ENAMELS

## Calgary Stampede Promises New High In Thrills And Prizes

Livestock Growers Offered Biggest Prize List in History.  
Carload of Brahma Bulls Will Test Riders' Skill.



**N**OBODY has ever asked for their money back because they thought the Calgary Stampede wasn't thrilling enough. This year a new thrill is being added. A carload of Texas Brahma bulls will be used for the bull riding events.

Somebody has called them hump-backed bundles of fury. It's a good description for only the top riders in the business will tackle them, and they do it with a healthy respect. When Brahma bulls are used it is necessary to have a clown in the ring to distract their attention to enable the riders to scramble to safety. "Slim Pickens", a cowboy clown from Fresno, California, who comes complete with a trained mule, will add touches of hilarity to the thrills this year.

As always, the Stampede will get underway with the Monday morning parade through Calgary streets. Commercial floats have been eliminated from the parade. Their places will be taken by cowboys, Indians, chuck wagons, riding clubs and, particularly, specially organized historic exhibits from the rural communities of Southern Alberta. To encourage community participation in the parade, the FARM AND RANCH REVIEW has offered \$350 in cash prizes for the best exhibits.

Breeders of pure bred cattle, horses, sheep and swine will split the biggest prize pot ever offered in the West — \$23,000.

Once again the famous Chuck Wagon races will headline the grandstand attractions and the drivers and outriders will compete for \$7,500 in prizes.

Prize money for the regular rodeo events, increased once again from last year's record-breaking figure, should attract most of the outstanding performers in the rodeo world. These riders will find themselves up against one of the toughest assortment of brones to ever come out of the chutes in Calgary.

Last year, Stampede officials successfully inaugurated a system design-

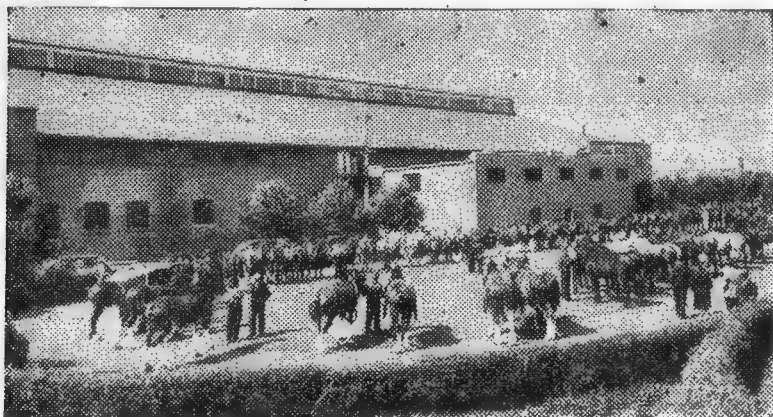
ed to ensure top quality performance from their bucking stock. All owners of bucking horses were asked to bring them to Calgary some weeks before the big show. Under the watchful eye of Arena Director, Dick Cosgrave, they were "dummied out," and only the tops were selected for use at the Stampede. Those selected were then grain fed for several weeks and were in top shape for the show, as many of the country's best riders will ruefully testify. This system will be followed again this year and, as additional insurance for the show, the Exhibition Board purchased twenty-five of the best horses which performed at last year's Stampede. These will also be grain fed and in perfect condition for this year's classic.

Spectacular fireworks displays have been promised for Monday, Wednesday and Saturday evenings by the Thearle-Duffield Company of Chicago. This Company made its first excursion into Western Canada last year for an exclusive engagement at the Calgary Stampede, and presented what was undoubtedly the most thrilling and colorful display of fireworks ever seen in this part of the country.

A feature of the week which cannot be overlooked is the unique Friday morning kiddies' program. Twenty-five thousand youngsters will cram every corner of the grandstand enclosure to watch the free showing of acts selected from the evening stage attractions, the parade over the stage of prize winning livestock, and the draw for valuable prizes donated by local business firms.

Enquiries and grandstand ticket reservations pouring in from all corners of the continent indicate another record breaking attendance. In the last two years, a total of 675,000 people have swarmed through the gates, and it is a source of never ending wonder how a city of 100,000 people accommodates the influx of visitors. Every hotel and tourist camp is booked up months in advance for the big week, and many tourists find accommodation in surrounding towns.

## Edmonton "Ex." Expands Plant Equipment And Show Facilities



LONG regarded as one of the most important livestock and agricultural Exhibitions in Canada, west of the Great Lakes, the Edmonton Exhibition is looking still further ahead. It has just completed a fine, new livestock show and sale pavilion with accommodation for 800 head of show animals. Adjoining is the sales ring, with a seating capacity for over 2,000 spectators, with no posts to interfere with a clear view of the show and sales ring.

This fireproof building is steam heated and air-conditioned by electric fans. Dressing rooms, showers and sleeping quarters for exhibitors also are included.

The dates for the Exhibition this year are July 12 to 17.

In both show and entertainment features the 1948 Edmonton Exhibition promises to be both bigger and better than ever. In addition to livestock, agricultural and machinery exhibits, demand for space in the manufacturers' building already surpasses all previous years.

District agricultural exhibits and individual farm exhibits are also two features for which the Edmonton summer fair is famous.

The children's day event, too, has grown to enormous proportions—last year over 20,000 tickets were distributed to children throughout central

and northern Alberta through the co-operation of district and municipal schools. On children's day, children are admitted free to grounds and grandstand, and special grandstand entertainment is provided, together with the grand livestock show and parade. A large list of prizes are distributed.

It is also planned this year to have novelty entertainment features in front of the grandstand every afternoon during the horse races. The grandstand show will be outstanding and Royal American Shows will provide the Midway attractions.

Prize List for the 1948 Edmonton Exhibition is now off the press and available on request. The closing date for livestock entries is June 18, and for all other departments, excepting horticulture, the closing date is June 23. Intending exhibitors and all interested parties are invited to write for a copy of the prize list and for complete information to the Edmonton Exhibition Association Ltd., Arena, Edmonton.

Plans are presently being drawn for a large extension to the hockey arena, which, when completed will increase the capacity to 8,000 people. This work will be done as soon as materials are available, with a view of having it completed for the opening of the 1948-49 hockey season.

## Everything From The Fine Arts To a Mechanical Cow At Saskatoon

Saskatoon Summer Fair Prepares to Accommodate Record Flow of Visitors. A Baseball Tournament, Sally Rand, Machinery Exhibit and Calf Sweepstake Among Feature Attractions.

THE Annual Summer Fair conducted by the Saskatoon Industrial Exhibition will take place this year during the week of July 19 - 24. Interest in this year's Fair is unusually great. Already every inch of space in the industrial and machinery exhibits sections has been sold. Demand for outside concession space is greater than it has been any time since before the war. All of this indicates a continued, if not a renewed interest in Exhibitions.

Saskatoon is going all out this year to make visitors to the Exhibition welcome. The Board of Trade is preparing a list of approved homes where rooms can be rented, by the night or for the week. The usual charge for this type of accommodation is \$1.25 per person per night. A better rate may be had if the rooms are occupied for the week. Information regarding accommodation may be had by applying to the Saskatoon Board of Trade,

Bessborough Hotel, Saskatoon.

The Exhibition will provide, of course, the usual entertainment, such as horse racing, grandstand attractions and the carnival midway. The latter, operated again this year by The Royal American Shows, will feature the internationally famous *Sally Rand*. Other entertainment features will be the annual baseball tournament and the always popular Travellers' Day Parade. The latter event is held on Friday of Fair Week, and will be highlighted this year by a radio address by John Fisher in his series "John Fisher Reports."

For those interested in the educational side of the Fair, there will be much to occupy their attention. Saskatoon's first Canadian Salon of Photography will be a feature of the Fine Arts Section. This Salon is sponsored by the Saskatoon Camera

(Continued on page 12)

...BUY  
RESULTS\*  
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'MIRACLE'  
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MORE EGGS  
BETTER EGGS  
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The First choice of  
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Don't just dream about  
**A BANK ACCOUNT**

• Almost everybody admits that putting something aside every payday is a good idea. For one thing, it's a comfortable feeling to know that, come what may, there is a bank account to fall back on. For another, it's good for your self-respect to realize that at least part of what you work for is yours after the bills are paid.

Saving is far from easy in these days of high prices. But now, as always, the hardest part for most people is making a start and establishing the habit of saving.

Opening a savings account at The Bank of Nova Scotia is a pleasant and stimulating experience. And possibly you've already accomplished the first step. If you have War Savings Certificates maturing, now is the time to talk to the Manager of our nearest Branch about using the proceeds to continue building security for the future.

**THE BANK OF NOVA SCOTIA**

**SIXTY-THIRD  
CALGARY  
EXHIBITION AND  
STAMPEDE**

**JULY  
5-10**

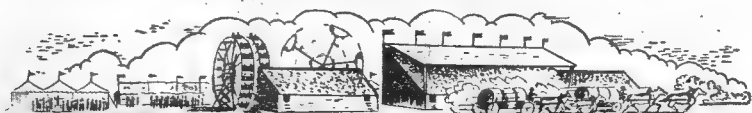
**6 ACTION-PACKED DAYS OF  
UNEQUALLED ENTERTAINMENT!**

A lifetime of thrills packed into six glorious days when the Old West lives again! Six days of super entertainment featuring the world's top-notch riders in sensational cowboy sport contests, daily . . . the West's finest LIVESTOCK AND AGRICULTURAL EXHIBITS . . . the world famous chuck wagon races . . . stupendous grandstand vaudeville show . . . running races . . . picturesque Indian encampment . . . three nights of spectacular FIREWORKS!

**DON'T MISS IT!**

ADMISSION: Grounds 25c; Grandstand—Evenings \$1.50 and \$1.00. Afternoons \$1.25 and \$1.00. Bleacher seats only 50c.

Write direct to Exhibition Office, Calgary, for seat reservations and general information.



**THE  
World's Greatest Show!**  
CALGARY EXHIBITION AND STAMPEDE LIMITED

A. H. MCGUIRE, PRESIDENT

J. CHAS. YULE, GENERAL MANAGER

YOU GET QUICK RESULTS FROM FARM AND RANCH ADS.

**GET RID OF  
BARN FLIES**

**DEENATE 50-W**  
(50% DDT INSECTICIDE)

**keeps barns and livestock  
free of insect pests**

**With DEENATE 50-W, you can keep barns and livestock free from flies, gnats, other annoying insects—easily and economically. It rids poultry houses of lice, kills keds (ticks) on sheep.**

**EFFECTIVE FOR WEEKS**

DEENATE 50-W leaves a deposit which kills insects for weeks after application. One pound makes enough spray to cover up to 1600 square feet of surface—or from 10 to 20 gallons of spray or dip for livestock.

**CONTROLS POTATO LEAFHOPPERS AND BEETLES**

DEENATE 50-W is highly effective against leafhoppers, Colorado potato beetles, flea beetles. Its ultramicro particle size assures even, economical coverage.

DEENATE 50-W is a powder—just mix with water. 1-lb. and 5-lb. cans; 4-lb. bags.

**CANADIAN INDUSTRIES LIMITED**

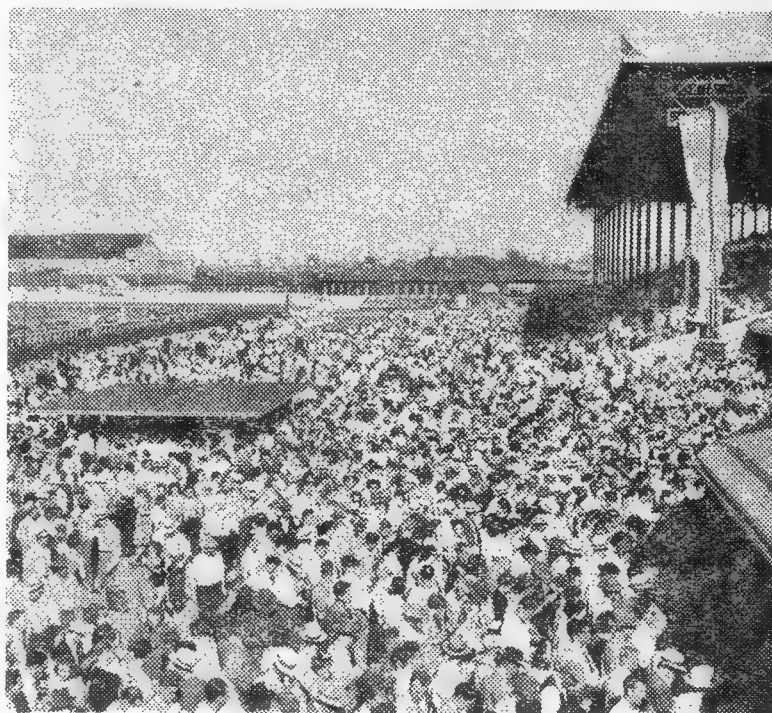
Agricultural Chemicals Division

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**Pesticides**

## More Rodeo Events At Regina 1948 Exhibition



REGINA Exhibition added a Rodeo as one of their main features in 1947, and is now known as the Regina Exhibition and Rodeo. The dates for the 1948 event are July 26th to 31st. While it still does not compare with the famous Calgary Stampede in many respects, it can lay claim to being the second largest Rodeo in Canada from the standpoint of length and money offered.

The Chuck Wagon Races which were introduced to Saskatchewan audiences for the first time last year were one of the highlights and proved so popular that there seems a definite possibility that several teams will be organized in the province for this year's races.

Regina directors emphasize that in bringing the Rodeo to Regina it merely added to the entertainment and that nothing has been deleted. Rodeo events are seen each afternoon between the running races and the Chuck Wagon Races are part of the night entertainment.

All other features of a great Exhibition are to be found at Regina, where they have one of the largest and most spacious plants in Western

Canada. Industrial Exhibits have hit a new high, with two wings of the enormous World's Grain Show Building filled to capacity.

The Automobile Show, which Fair patrons had not seen for several years, was brought back in 1947, and promises to be even larger in the current year. The Machinery Show, which has always been a prominent feature at Regina, made the claim of being the largest in Canada last year and totalled well over a million dollars in value.

The Regina Exhibition grounds was loaned to the Department of National Defence during the recent war, and directors found that much work had to be done to the buildings after the Army's occupation. Much of this was completed in 1946 and '47, and buildings are now on the whole in very excellent condition.

A new movable Grandstand attractions platform was built last year and allows for much better observation from the Grandstand. Pari-mutuels were extended, Grandstand seats painted and a hard-surface job done in front of the Grandstand.

## Saskatoon Summer Fair

(Continued from page 11)

Club and promises to attract prints from all over the Dominion. The Fine Arts section will also contain the stamp collection which proved so popular last year.

The Dairy Exhibits Building will offer for the first time an extremely interesting display. Ever since competition in dairy products was done away with and an educational display substituted, the committee in charge has gone to considerable trouble to add new features each year to make the display both interesting and educational. This year a "Mechanical Cow" is being imported from the United States. From all reports the "Cow" does just about everything that could be expected of a live cow.

The livestock exhibits at the Saskatoon show have always been of high quality. A unique feature of the livestock show in Saskatoon is the parade of the champions. This parade takes place Thursday afternoon after all of

the judging has been completed. The champion and reserve champion in every breed are put on parade. In recent years this parade has attracted thousands of Exhibition visitors. As the champions and the reserves pass the reviewing stand a commentator comments on the fine points of the animal and gives its history.

An interesting and a unique feature of the livestock show at the Saskatoon Exhibition is the Dairy Calf Club Sweepstakes Competitions. This competition comprises ten teams drawn from all parts of the Province of Saskatchewan. The boys and girls taking part are regional winners in the Dairy Calf Shows.

Another interesting feature is the demonstrations staged each afternoon in the judging ring. These demonstrations put on by experts cover such things as sheep shearing, warble fly control, dressing animals for the show ring, etc.

## L. B. Thomson Head P.F.R.A.



L. B. Thompson

**A**PPPOINTMENT of L. B. Thomson as Director of Rehabilitation under the Prairie Farmers' Rehabilitation Act, is of wide interest. He succeeds George Spence who resigned last autumn to serve as a member of the International Joint Commission which deals with boundary waters.

His practical experience in the development of the Dominion Range Experiment Station at Manyberries, Alberta in connection with dry land agriculture and ranching combined with his later appointment as Superintendent of the Dominion Experimental Station at Swift Current, will be of enormous value in P.F.R.A. activities. These include management of water conservation from backyard water dugouts to million dollar dams; a land utilization program effecting one-and-a-half million acres of pasture.

Mr. Thomson was born in Blenheim, New Zealand in 1900 and in his youth had considerable experience in managing sheep ranches and in other phases of livestock work. After coming to Canada he worked on several Alberta farms and ranches and subsequently attending the University of Alberta, from which he graduated in 1925 with the degree of B.Sc.A.

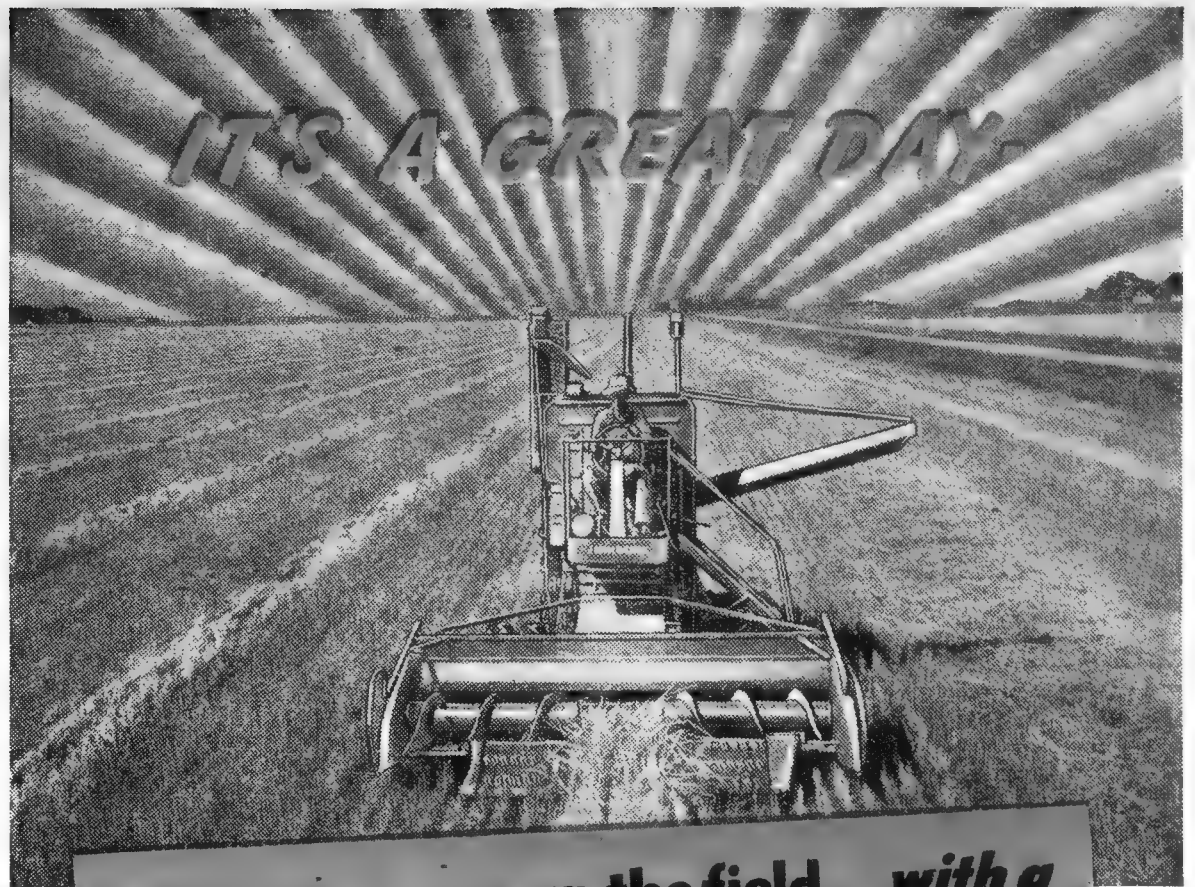
On leaving college he was placed in charge of the provincial boys' and girls' farm club work by the Alberta Agriculture Department. In 1926 was appointed to the Dominion Experimental Farms Branch as Field Husbandman in charge of range investigation work in Saskatchewan, Alberta and British Columbia. He is past president of the Agricultural Institute of Canada and in recent years has sponsored and developed co-operatives for sheep raising at Val Marie and horse meat canning in Swift Current and Edmonton.

• • •

## Land Utilization School at U.B.C.

Fifteen University of British Columbia students and graduates, just finished with final examinations in Agriculture or Geography, started school again.

Their classes are in a special course on Land Utilization, administered by the University in co-operation with the Provincial Department of Lands. On completion of the two-week course, the students in crews will start surveys on Crown lands in the Peace River, Prince George, Similkameen and Kootenay areas to determine the land capability of potential agricultural value which remains available for settlement.



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NEW JOHN DEERE COMBINE**

The hungry hum of a John Deere Combine opening up the field is sweet music to every new owner.

And that music grows sweeter every round, every day, every season as he continues to "cash in" on the greater grain-saving ability... steadier operation... and lower per-bushel harvesting cost of his John Deere Combine. Truly, he enjoys combine harvesting at its best. So, it's no wonder owners everywhere join in saying — "It's a great day when you open up the field with a new John Deere Combine."

The greater satisfaction from John Deere Combine ownership is largely the result of the tremendous capacity that's built into the cutting, threshing, separating and cleaning units. This capacity for handling the heaviest crops without overloading, together with honest strength throughout, is your assurance of better all-around performance down through the years.

For large-acreage grain growers, the John

Deere No. 55 Twelve-Foot Combine, shown above, is the leader of the self-propelleds. Unusual ease of operation and control from the high, roomy, operator's platform... a wide range of operating speeds from a mere crawl up to six miles per hour... a top speed of nine miles per hour in transporting... proper weight distribution for clean cutting and good footing in any soil condition... 45-bushel auger-unloading grain tank on top of the combine and the powerful, heavy-duty motor directly behind it for quick, easy servicing—these are but a few of the extra-value features of the No. 55.

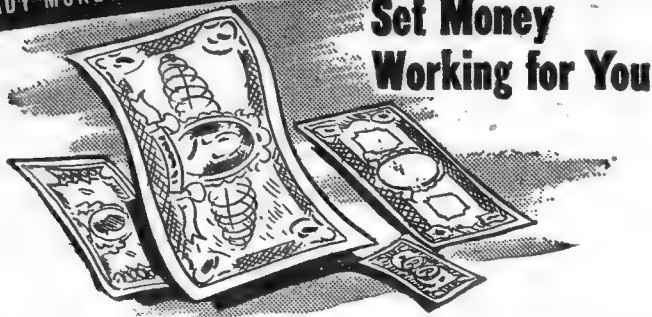
Cutting a full six-foot swath, the No. 12-A Full-Width, Straight-Through Combine, shown below, gives you what you want in a combine of its size.

See your John Deere Dealer for complete information on these thrifty, grain-saving John Deere Combines. Free folders will be mailed upon request.



Both the John Deere No. 55 and the No. 12-A are complete masters of every combineable crop. More clean, uncracked grain or seed in the tank is the rule when you harvest your crops with a John Deere Combine.

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**JULY 1<sup>ST</sup>**  
is our **1<sup>ST</sup>** Dominion Day

This is an important date for each of us. Although we set it aside as a day of fun and summer-holiday enjoyment, let us not lose sight of the fact that "World Affairs" make it a solemn occasion on which we must rededicate ourselves to living democratically.

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## Thumbs Down On Rotary Tillers

THE advice of E. B. Martin, Extension Agricultural Engineer, Alberta Department of Agriculture to farmers in Alberta interested in the possibilities of rotary tillage equipment on their farms is to leave it alone.

Rotary tillers (of which there are several varieties) are relatively small, expensive implements with rotating knives or teeth that break down the soil structure and leave the land in a very finely pulverized condition. Such a condition does make a good seed bed, and these implements might be all right for truck gardens or similar small plots. However, Mr. Martin emphasizes that nobody interested in the future of this western country can condone the use of such equipment for general farm use. "We have only recently recovered from one battle against dust storms", he says, "and nothing could provoke a recurrence quicker than extensive use of rotary tillage machinery in this province."

## Grit for Baby Chicks And Turkey Poults

Farmers should supply grit to their baby chicks and turkey poults. This should be done right from the beginning. C. W. Traves, Poultry Commissioner, Alberta Department of Agriculture, states.

Chicks and poults do not have any teeth and are dependent on grit and the muscular action of the gizzard to grind their food. If grit is not present and there is too much fibrous material in the feed the gizzard will become impacted and the bird will starve to death.

Do not use a soft or so-called double duty grit. Use a hard granite grit. If this is not available, native gravel, screened to the proper size, is very satisfactory.

## For New-Comers To Irrigation

GET the seed in quickly after the levelling job is completed. To prove that levellers need be neither expensive or complicated, the Dominion Experimental Farm at Lethbridge has devised one that can be made on the farm.

For a good levelling job, the topsoil must be dry. Starting at one corner, the leveller should be drawn diagonally across the field to the opposite corner. This will cut off ridges and fill in dead furrows. If a second levelling is indicated, it should be at right angles to the first; starting at a different corner.

Before any levelling is done, however, the land should be prepared for it. After plowing, all clods should be broken down with a double disc or a spike toothed harrow.

A total of \$5,579,000 will be spent on Manitoba's road construction program this year, including \$1,271,000 for part of the work on the Winnipeg-Emerson highway, it has been announced by Public Works Minister Errickson.

## Tips For Junior Judges

**Showmanship Suggestions** — With Junior Beef Club Achievement Days in the offing, club members will find helpful the following suggestions on showmanship from G. S. Black, Supervisor of Junior Activities, Alberta Department of Agriculture.

1. Use a neat rope halter, or a leather one. Be sure it is clean and the lead rope carried in a coil. Remember to polish the brass on the leather halter.
2. Always keep the calf between you and the judge.
3. Most classes are judged in about thirty minutes. Therefore, you have thirty minutes to show your calf, no let up — watch that calf and watch the judge.
4. Keep the calf alert. Jiggle the lead line, brush its hair, keep it standing correctly. Do not relax.
5. When taking your position in line, remember two things. Take plenty of room, and, if possible, have the front feet slightly higher than the hind feet.
6. When moving a calf out of line do not back it. Walk ahead around the other calves and come in from the rear straight to your new position.
7. Carry a stick or a cane. Use it gently or not at all.
8. If you win, say you were lucky. If you lose congratulate the winner.

## Is Your Tractor A Motor Vehicle?

When is a tractor a motor vehicle? And why should a tractor be insured for public liability and property damage?

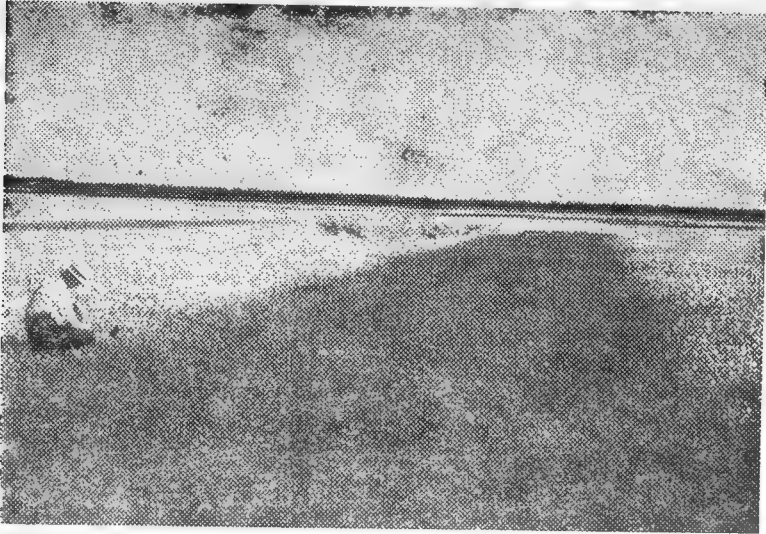
These were questions confronting a Manitoba farmer last month when his tractor collided with a motor vehicle on the highway. The tractor, travelling at about 18 miles per hour, was neither licensed as a motor vehicle under the Highway Traffic Act nor was it insured.

According to Manitoba Commissioner of Taxation R. B. Baillie, a tractor or traction engine is a motor vehicle when it is *actually travelling* on a highway at a speed of more than 10 miles per hour. Regarding the owner's liability in the case of a highway accident, however, the speed of the tractor and the fact that it may or may not be registered as a motor vehicle, has no bearing on the situation. "The only test of the owner's liability," Mr. Baillie says, "is the question of negligence."

Thus, the above mentioned accident involving the tractor was only the first of a series of problems for the owner: 1. He will likely find himself charged with failure to register the tractor as a motor vehicle, since he was travelling above 10 miles per hour; 2. The tractor was temporarily impounded because he was unable to furnish proof of financial responsibility; 3. He was required to make a deposit of \$450 to get his tractor out of pound — a bond to take care of any claim which the owner of the motor vehicle may have against him; 4. He was required to furnish proof of financial responsibility by filing a Certificate of Financial Responsibility from an insurance company.

(Continued on page 15)

(Continued from page 14)



This trial plot of flax heavily infested with wild mustard and other weeds after treating with 2,4-D gave a yield increase of 88% over the untreated check.

## Sub-Soil Moisture Is The Vital Factor

IT is the depth of the moisture in the soil that counts. P. J. Janzen, of the Swift Current Experimental Station has come up with some facts and figures.

Where the depth of moist soil at seeding time was the same, the yield from fallow and from stubble land was the same. Where the moisture depth was 18 inches, the yield was 8.3 bushels per acre. When the depth was 44 inches or more, the yield was 24 bushels. Of course seasonal rain fall has its effect. But in 25 of the 35 fields tested, where the moisture was 18 inches or less at seeding time the yield was 10 bushels or less, regardless of rainfall.

Anything that will increase the depth of moisture will tend to increase yield. Weeds use up sub-soil moisture. Weeds allowed to grow in the stubble or on fallow in the fall reduce the moisture available the next year for grain. One to three more cultivations may be necessary to kill the weed growth, but Mr. Janzen recommends it. The cost may run to \$1.50 per acre, but the yield will be increased by six bushels.

## How to Control Gully Erosion

For the soil conscious farmer this was a bad year. Erosion, from the heavy spring run-off, has gouged away the top soil in many of the small gullies and drainageways on western farms. The Lethbridge experimental station suggests the following method of preventing further damage.

Both sides of a gully should be plowed with a four-bottom plow and the eroded parts filled with a grader. The bottom of the channel is flattened out, the sides graded. Temporary coverage is provided by broadcast grain seeding. Brome grass, seeded at the same time, will provide permanent protection.

## Sulfa Drugs Recommended To Check Poultry Disease

TO prevent substantial losses among growing chicks from caecal coccidiosis Dr. R. P. Waechter, Sask. provincial veterinarian, has recommended the use of sulfa drugs in controlling the disease.

Coccidiosis is one of the four major poultry diseases in Saskatchewan, he explained, adding that because of this its effective control is of vital importance to egg production on which export commitments and domestic market supplies are dependent.

"Birds become infected by eating feed or drinking water that has become contaminated," the provincial veterinarian said. "First sign of the common types of the disease is a wateriness of the dropping. About the fifth day after a chick has become infected, blood is usually observed in the droppings."

To effectively treat the disease, Dr. Waechter recommended mixing sulfamerazine or sulfamethazine solution with the chick's feed or dissolving the drug in the drinking water and using according to manufacturer's directions. Cost is one or two cents per bird for this treatment, effective when the disease occurs or to develop an immunity to infection.

Further information on the disease and its control may be obtained from the Provincial Veterinarian, Legislative Building, Regina.

## Less Hog Feed When More Salt Used

A saving of \$20 in feed costs for each dollar's worth of salt used, was effected during recent experiments in hog feeding in the United States. Salt-fed pigs gained 1.46 pounds daily as compared with 1.26 pounds gained each day by hogs fed the same ration without salt. In this experiment each pound of salt saved 9.4 pounds of feed.

According to R. M. Rowat, development manager of C-I-L's salt division, 90-pound hogs were fed for 85 days on a ration of corn, soybean, oilmeal, alfalfa meal and a simple mineral mixture. Those who had a free choice of salt averaged 255 pounds in weight at the end of the feeding period, while those not getting salt averaged only 174 pounds. For each pound of salt consumed there was a saving of 3.8 bushels of corn and four to six pounds of supplement. When supplementary protein was of animal origin, benefits of salt were not so great, although they were still quite substantial.

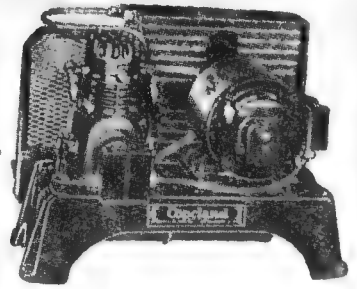
## The Wily Rats

Never under-rate the cunning of rats. To get them to consume poisoned food requires continual changes in the bait. One farmer tried ground grain, chopped apples and ground meat and fish. Each was effective for a while but soon developed resistance in rats. He tried milk. A pan of milk was placed where the rats could find it. For the first two or three nights they were exceedingly wary. Then one morning the farmer found the dish empty. That night he added a mixture of Antu to the milk and got rid of all his rat troubles.

## Commercial Refrigeration and Deep Freezers

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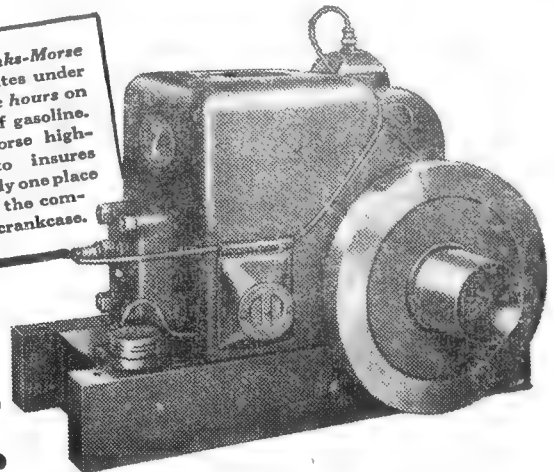
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YOU'LL "love" the low fuel and oil consumption of a Fairbanks-Morse "Z" Engine. But best of all you'll like the way you can leave a "Z" Engine working unattended for hours.

For 30 years these farm engines have been famed for giving dependable, economical service. Today's improved models are even better than the earlier ones. Their low speed means slow wear. Their simple, single-cylinder design makes them easy and inexpensive to service—without calling a repair man.

Sizes range to 30 hp., so there's a "Z" Engine for every farm job . . . for pumping and for driving milking machines and coolers, saws, hoists, elevators, and other farm equipment.

### Easy to get inside

Just remove two bolts to lift off the crankcase cover of the 2-hp. "Z" Engine.

### Easy to service

Crankshaft, bearings, connecting rod, piston, and gears are all easily accessible for inspecting and servicing.



2-hp. "Z" Engine with crankcase cover removed.

Use the coupon below to get the full details of this and other Fairbanks-Morse Farm Equipment in which you may be interested.

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# The Search For An Ideal Design For a FARM HOME

A SATISFACTORY farm home differs in several important respects from the city residence. The farmer's home should be planned differently in certain ways to more adequately provide for the activities which take place in it; due to the amount and kind of work to be done on the farm.

The farm home needs greater storage space, it requires a much larger kitchen, with sufficient area to accommodate the family and the hired help; it requires wash-up facilities near the rear door with an adjacent space for muddy foot-wear and to hang work clothes. This space should be preferably inside the house where it is warm in winter time and where these outdoor togs can dry out and remain warm. Another thing, most farm homes require a coal and wood range so that the chimney must be built accessible to the kitchen and proper space provided for a woodbox or other fuel storage.

Another very handy provision for a farm home that is not so much a "frill" as may appear at first thought, is a separate room for the farm office, or a den. Such a room should be near the back door and provides a very useful place in which men may talk over business matters. In it should be provided cupboards and shelves for bulletins, papers, etc., and of course, a desk and chair and a telephone. Such a room could also be used, as occasion requires, for a child's bedroom, or for a guest bedroom, and considering its many uses, is a room that should be carefully considered. Another thing, a farm home usually requires more bedrooms than are needed in the average city residence, since the farmer has not only his own family, but also the hired help for which to supply sleeping accommodation.

All these requirements of the farm have been kept in mind in designing the farm home, shown on this page:

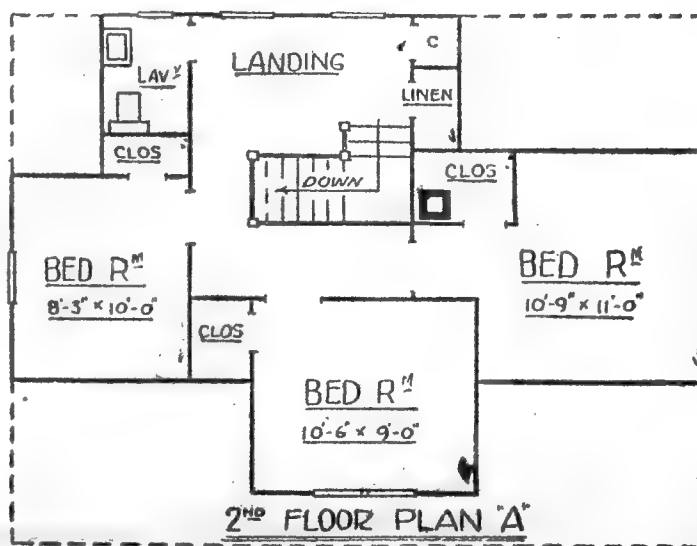
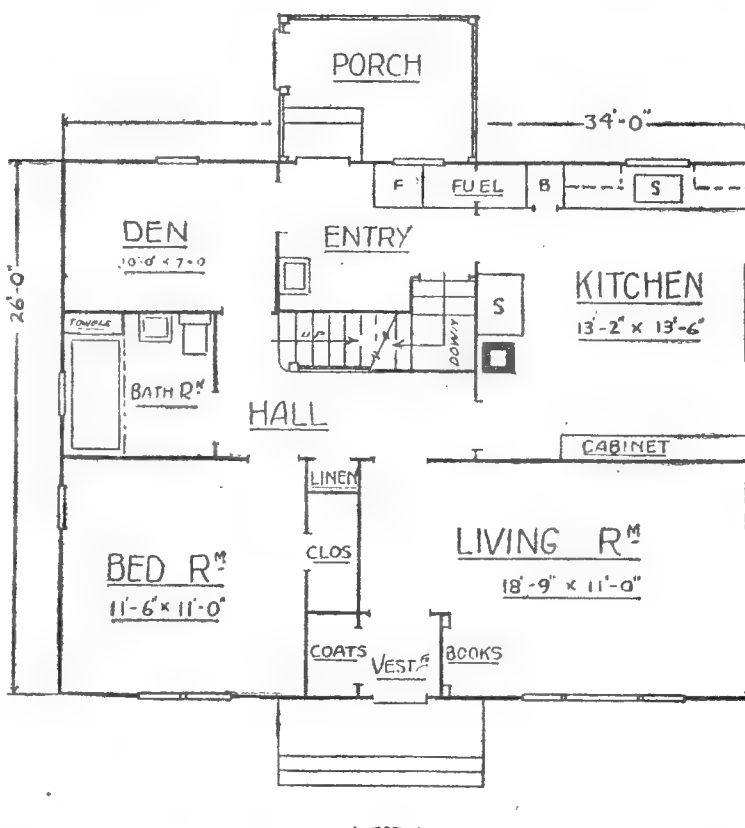
1. Note the large kitchen with a long bank of kitchen cupboards on the rear wall. The window over the sink provides not only plenty of light for the dishwashing chore, but also a good view of the farm yard in the rear.
2. The kitchen is large enough to provide ample dining space.
3. The outside porch, at the rear entrance, provides storage space for fuel wood and work clothes saturated with barn odours.
4. The wash basin and clothes-changing-area by the rear door will be handy for the men-folk and a relief to the floor cleaning duties of the busy housewife.
5. The refrigerator is placed handy to the rear door so that meat, fruit and vegetables can be stored therein, without carrying them through the kitchen.
6. The fuel bin, alongside the refrigerator, and handy to the stove, can be filled from the porch side and the fuel taken out from the kitchen side. This saves steps and helps to keep the kitchen clean.
7. The den, or farm office, is handy to the rear entrance.
8. The master bedroom is on the main floor, handy to the bathroom, and not far from the kitchen. It can be reached from the kitchen without walking through the living-room. One bedroom on the main floor is almost an essential on the farm home. It will save the housewife many steps in

## FARM HOME

The Farm is Not the City, and Houses Planned for City Dwellers will Not Suit the Farmer. Here Are Points to Remember.

By I. C. EDWARDS and M. J. G. McMULLEN

### COUNTRY RESIDENCE No. 1



caring for a sick member of the family, small children or an elderly person. It provides a handy retreat for the over-burdened housewife in catching a few minutes rest without having to walk up and down stairs. This well-lighted bedroom is large enough to contain a sewing machine, thus providing a convenient place for this important chore. The clothes closet is extra large; in fact large enough to be divided, if desired, into two closets with separate doors, one for the man and one for the wife.

Those requiring a farm residence would do well to examine the features of this plan very carefully, because it provides in a very effective way, and within a relatively small floor area . . . 26 ft. by 34 ft. . . practically all the special requirements of a farm home, with the rooms arranged in such a way that there is free and convenient passage between one room and another, while at the same time having the stairs to the basement convenient to the rear entrance door.

*Editor's Note:* The authors of this article have developed a number of plans for farm homes. Any of our readers who are interested in this subject can write to them at 922 Royal Bank Bldg., Winnipeg.

## Sask. Scientists Beat Oats Smut

SASKATOON: By 1950 smut should no longer worry Saskatchewan oat growers.

Dr. J. B. Harrington, of the University of Saskatchewan, who along with co-researchers spent 11 years in developing Fortune, a new variety, announced this recently. A license for the new, smut-resistant variety has been issued by the federal department of agriculture.

Considered an improvement on Ajax, Exeter and Valor oats, Fortune was high-yielding, and resistant to sprouting under wet harvesting conditions.

Trials at all prairie experimental stations in the last three years showed Fortune gave high yields in drouth areas.

Fortune was obtained by breeding Victory with a double-cross developed by Dr. F. A. Coffman, of the U. of S. department of agriculture.

Thousands of hybrids were reduced to three outstanding lines and during the last three years the superior strain among these was developed and named Fortune.

Dr. Harrington said no seed treatment was necessary for smut control.

Initial stock available for 1948 seeding was less than 1,000 bushels and this would be increased by the university and members of the Canadian Seed Growers' Association. Most farmers would be able to get Fortune by the winter of 1949-50.

Also announced at the U. of S. was an improved variety of Apex — Saskatchewan 2177 — developed after 11 years research.

The new Apex was considered a "striking improvement" over Apex 2156.

It gave higher yield, has longer straw, is higher in bushel weight and had plumper kernels than Apex 2156. In milling and baking quality it was equal to Marquis and to the original Apex.

## Horse Shortage Predicted In Sask.

REGINA: — An acute shortage of horses in Saskatchewan within the next four or five years is indicated by 1946 census statistics on the province's horse population released recently, by Livestock Commissioner C. E. Beveridge.

"The significant fact revealed by the census is that there were 64,191 foals under one year of age in the province in 1936 compared with 14,527 in 1946," the commissioner said. "This means," he continued, "that a large percentage of the horses on Saskatchewan farms must be fairly old and, since the number of foals born in the past few years has been comparatively small, the province's horse population will undoubtedly decline rapidly if the present trend continues."

It is estimated that the province, even with tractor power, will require for farm work 300,000 to 350,000 horses, Mr. Beveridge pointed out, adding that to maintain this adequate population there should be 30,000 born per year, which is twice the number shown in the 1946 census.

In an effort to forestall a shortage of quality breeding stock in the future, department of agriculture policies have been designed to promote the breeding of good quality horses, Mr. Beveridge said. Under the government's horse assistance policies, he concluded, grants are offered to groups who purchase approved stallions of certain breeds and to owners of approved registered mares that produce live foals.

## Want a Good Lawn? Get These Leaflets

To set off a new house to the best advantage a good lawn is essential. It isn't a difficult job for anyone to construct a new lawn, if the instructions in the leaflet "The Construction of New Lawns" are followed. A copy can be obtained free from the Division of Forage Crops, Central Experimental Farm, Ottawa.

How can a lawn be kept in the best condition? The answer is given in easily understood detail in a pamphlet "The Care of Lawns" which is available free from the Division of Forage Crops, Central Experimental Farm, Ottawa.

In the Spring of the year is the time to start the work that consistently carried on will eventually transfer a tired looking lawn into one that will look like a fine woven carpet. The pamphlet referred to gives the know how.

## Gallinger Auction Smashing Records

AN all-time record for the sale of registered Shorthorn cattle in Canada was set at Edmonton when 35 young bulls, owned by Claude Gallinger of Edmonton were sold for a total of \$61,225, or an average of \$1,700.

The auction was held in the new livestock pavilion, Edmonton exhibition grounds, with J. W. Durno of Calgary and Don Ball of Edmonton, auctioneers in charge.

Top price of the sale was \$6,000, with one selling for \$5,600, and others around the \$4,000 and \$3,500 mark.

Seventeen of the 35 animals will go to United States breeding herds with the remainder scattered throughout Canada.

## EFFECTIVE WEED KILL for as low as

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Available in the three formulations approved by agricultural authorities

HERBATE (2,4-D) is not only highly effective, even against tough, hard-to-kill weeds—it's inexpensive, too.

As little as 61 cents' worth of HERBATE makes enough 2,4-D spray to treat an acre.

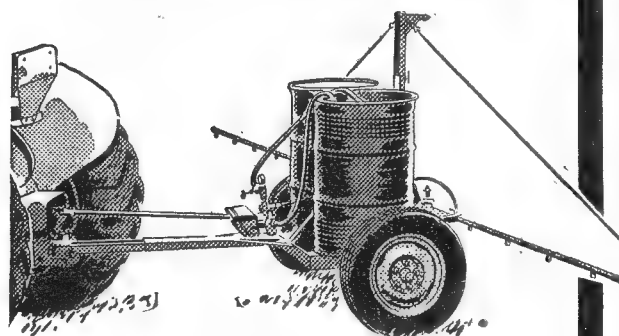
### CHOOSE THE TYPE BEST SUITED TO YOUR NEEDS

With HERBATE (2,4-D), growers can now choose the formulation best suited to their own conditions. All three HERBATE

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## It costs little to own this WATERLOO TRACTOR-POWERED Sprayer

Sprays up to 20 acres at one filling



### WATERLOO TRACTOR-POWERED SPRAYER

A complete, inexpensive unit, always ready for use when you need it. Just hook it to your tractor—save the trouble and delays of tractor-mounted booms.

**Folding Booms—27½-Foot Spray Width**  
One-inch galvanized booms are adjustable from 20" to 36" above the ground—give a total spray width of 27½ feet. Quickly folded for easy transportation and storage, and equipped with 18 flat-spray, low-volume type nozzles.

#### Strongly Built

The WATERLOO Tractor-Powered Sprayer is built to stand long, hard wear. It has welded frame with platform for two 45-gal. oil drums (or equivalent), and is equipped with Kelsey wheels which take 6.00 x 16" tires.

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### Another WATERLOO SPRAYER Self-Contained—Trailer-Mounted

Embodies every recent tested improvement for spraying 2,4-D weed killers. The 200-gallon galvanized tank holds enough spray to treat 40 acres without refilling. Folding 1½" galvanized booms have a 39-foot spray width, are easily adjustable to height of crop and may be operated independently for spraying fence corners and other small areas.

Booms have 26 flat-type spray, low-pressure nozzles at 18" centres, and are equipped with swivels and rubber-tired wheels to operate easily over rolling, plowed or stony land.

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"HERBATE" L-40 (Amine Salt). Water-soluble liquid, intermediate in activity between "HERBATE" L-37 and "HERBATE" P-70. Each Imperial gallon contains 5 lbs. of 2,4-D acid. Requires less than a pint per acre. 4-gal. cans and 40-gal. drums (Imp.).

"HERBATE" P-70 (Sodium Salt). Water-soluble powder, especially recommended for weed kill in flax (linseed), corn, lawns, etc. One pound provides 11.2 oz. of 2,4-D acid. Less than a pound makes sufficient spray for an acre. 1-lb. and 5-lb. cans; 25-lb. drums.

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**GREYHOUND**

# Consider The Cow — And Its Stomach!

(Why does the cow incessantly chew its cud?  
Here is one of the most interesting stories about this  
mysterious process we have seen. It was prepared by  
Canadian Industries Limited.)

**H**AVE you ever pumped water for a cow and wondered as your arms tired and your back ached, where it could put all that liquid? How could one stomach hold so much water?

The answer is that it can't. The trouble is that the cow has not one but four stomachs that have to be filled. The combined capacity of all these stomachs can be from 40 to 60 gallons of water, and sometimes more. A horse can only hold about 12 to 18 quarts while a pig has a capacity of six to eight.

Was nature outrageously generous in providing a cow with four stomachs? No, ruminant animals — the

flows along past the slit, and directly into the omasum.

Ruminants do not ruminate during sleep, while working, when excited, or if in pain. The fact that an ox requires 7 - 8 hours daily for rumination handicaps him somewhat as a work animal, for if his hours of work are long he must dispense with sleep to masticate his food.

And now back to the rumen, which is not a true stomach since it secretes no digestive juices, but only water. Nevertheless it is highly important in digestion, and here's where we go in for a little chemistry and biology.

The nutrients of plants are enclosed within cell walls made of cellulose, and when these are hard and thick as in hay and straw, the digestive fluids cannot easily reach and attack the nutrients locked within. In the rumen, these cellulose walls are softened by moisture, slowly but thoroughly mixed by muscular contraction, and ground against the rough rumen lining. All this is mechanical.

But a considerable amount of digestion also occurs, — not done by the animal itself — but by the hosts of bacteria, protozoa, infusoria, and other micro-organisms, which inhabit the rumen. These organisms attack the cellulose and pectosans of the feed, and break them down with the production of heat and the formation of simple digestible organic compounds. A good proportion of a ruminant's vitamin requirements may be manufactured in this way and this whole bacterial process is absolutely essential to the life and health of the animal.

Cattle and sheep have been subject in many parts of the world to a peculiar condition that begins with loss of appetite, followed by a perverted appetite wherein the animal chews on anything except its normal food, then comes anemia, progressive emaciation, and finally death.

The cause of the disease eluded research for many years because, beyond a general anemia, post-mortem examination of affected animals showed the internal organs generally in sound conditions.

Within the last fifteen years the disease has cropped up in North America, first in Texas, then Florida. Ten years ago it was first noted in Canada, in Southern Alberta, then in Nova Scotia, Quebec, Saskatchewan, Manitoba, and Northern Ontario. By this time, though, the riddle had been solved.

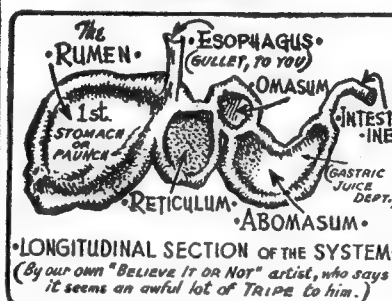
There is nothing organically wrong with ruminants suffering from pinning disease — the trouble is with the bacteria, etc. in the rumen. They cannot do their job without a trace of cobalt present. It doesn't take much to satisfy them, just one or two parts of cobalt in ten million parts of feed will do the trick, but that little is essential. Without it, the bugs go on strike, and their host then starves to death though in the meantime putting in a frantic search for anything that might perchance contain a trace of the missing element. This is the explanation of the depraved appetite.

The recovery of sick animals after receiving a trace of cobalt is almost miraculous. Normal appetite returns in a day or so, and as there is nothing organically wrong the matter, convalescence and recovery is extraordinarily rapid.

"Me? Hold All That?  
Where?"



**HERE!**



cud chewers — have to have that kind of capacity.

They were designed by nature to live on herbage containing a relatively small proportion of actual nutrient material and a great deal of fibrous material. Therefore to satisfy their food needs, a relatively enormous bulk of material has to be consumed, and simply to hold it they require a huge internal storage tank.

That is what the largest of the four stomachs, the rumen, is — a storage tank wherein strange things happen, — but just a word about this business of chewing the cud, or ruminating.

Ruminants while eating chew their food only enough to moisten it and form it into masses that can be swallowed. Down the hatch it goes, mostly into the rumen. The masses of food so swallowed are usually so large as to expand the gullet, and this expansion opens the "esophageal slit", just as would be the case if one tried to force a tight fitting object through a rubber tube with a hole in it, and through the slit goes the mass, into the rumen.

When the animal ruminates or chews the cud, the swallowed food is forced back through the same slit by contraction of the muscular rumen, just like squeezing tooth paste out of a tube, and back up to the mouth. The animal chews each cud, — about 4 ozs. weight — for about a minute, adding saliva till the finely divided material becomes soupy. On re-swallowing, the semi-fluid material

## D.P.'s Prove Shot In Arm

By MAUD FERGUSON

OTTAWA: D.P.'s are proving good workers. Up to March 1, 11,072 displaced persons have been brought to Canada and 20,000 more have been passed by the immigration authorities overseas.

Any fears employers had concerning the usefulness of D.P.'s have now been allayed. They have been employed in heavy industry, in forestry, in mines, with the hydro-electric, as track maintenance men with the railways and as domestic workers and have proved A-1.

Although a number of immigrants designated for agricultural jobs have been brought into the country under special schemes, this Spring will see the arrival of the first D.P.'s bound for Canadian farms. Two thousand are now waiting for shipping accommodation and on their arrival will be distributed among the provinces under the Federal-Provincial Farm Labor Program.

Most of the workers will be single men, but in the group are a few couples, and, for the first time, a few family units will be included. The introduction of whole families is an experiment. The refugee organizations have been pressing for the emigration of families on humanitarian grounds. They point out that in many instances parents and children have been brought together in displaced persons' camps for the first time in years. It is cruel to tear them apart again. However, Canadian officials have been worried about getting suitable work and accommodation for families. Now, however, certain employers have expressed their willingness to accept families, so a start is being made.

Among those ready to co-operate in the D.P. family immigration plan are sugar beet farmers in the west. Provided the families include several members old enough to work in the fields, such people can be usefully included in the community, sugar beet operators believe.

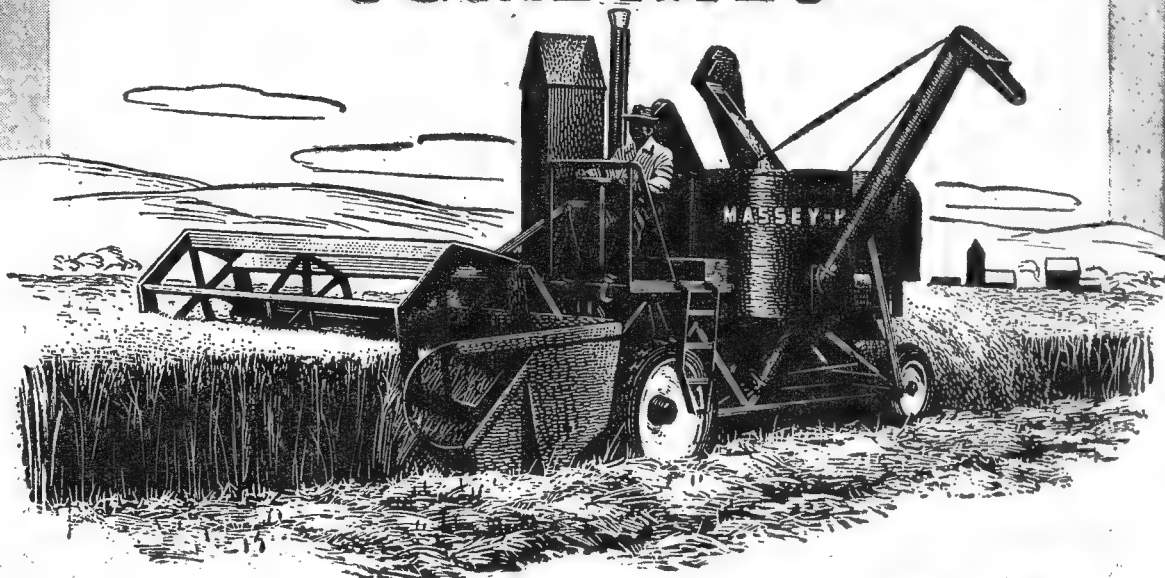
While some publicity has been given the few cases of D.P.'s who have not proved easily assimilable, employers are unanimous in reporting that generally speaking their work has been excellent and they are proving a tremendous asset to the Canadian labor force.

Federal officials point out that the majority "screened" for Canada are of particularly high calibre, among them being doctors, lawyers, laboratory technicians and others with university training, who are prepared to do manual work in order to start life again on this continent. This professional group is particularly uncomplaining, accepting their jobs as part of the price they pay to get out of war-devastated Europe.

The D.P.'s are assured of work for at least a year. In that time the governments in co-operation with employers and voluntary organizations are seeing that they be taught English (Basic English text books are supplied by the Federal Labor Department) and given some training in citizenship. This, it is hoped will help them to fend for themselves in competition with other Canadians, once government responsibility for their employment ends.

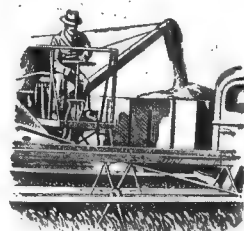
Compensation for damage caused by flood waters from the Riding Mountains last spring is being asked of the Provincial Government by delegates from rural municipalities in the Dauphin area.

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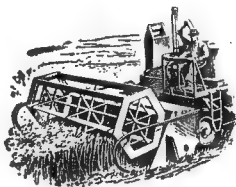
### "DOES A GOOD JOB IN ANY KIND OF CROP"

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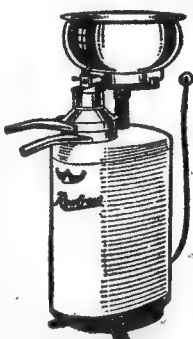
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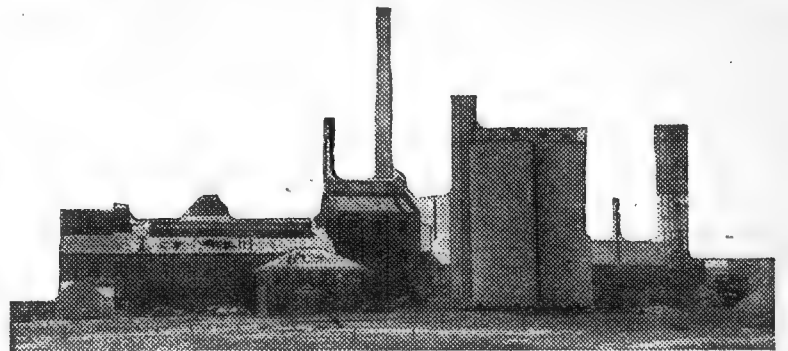
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## Emphasis Is On Machines As Sugar Beet Farmers Map Future



By C. FRANK STEELE

COMPLETE mechanization of the sugar beet industry is visualized, thus doing away with the toilsome stoop labor that has been a factor in the growing of beets in the past.

This goal — full mechanization — is probably many years ahead, but definite strides are being made toward that end. Much of the labor connected with the record 1949 sugar beet acreage in Southern Alberta will be done by machines. Eighty mechanical harvesting units were used last fall not counting the automatic loaders. That will indicate the way the wind is blowing in the beet industry.

Notwithstanding this the growers this year will use a lot of human labor in the fields — Japanese evacuees, Polish war veterans, immigrant families from Holland and other parts of Europe and what local help is available, possibly some Indian families from the Blood Reserve. A lot of Indians are experienced in beet fields.

However, the objective has been set up by the industry — ultimate mechanization. Some time ago Ernest Bennion of Picture Butte, home of one of the two factories operated in Alberta by Canadian Sugar Factories, said at an agricultural improvement meeting, that the beet growers have set up a goal — they will raise their beets untouched by human hands. Mr. Bennion is agricultural superintendent of the sugar company for the Lethbridge Northern district.

### Machine Is Better

Mr. Bennion was discussing the new developments in the sugar beet industry for the past 30 years, the speaker recalled how beets were lifted by hand, and the tops cut off with knives and then forked into wagons by hand and often forked out by hand into cars at the receiving stations. Nowadays a lot of this laborious work is done mechanically, more efficiently very often and much faster.

During World War I, he said, because of the shortage of labor and the high price of sugar, some progress was made in modernizing and mechanizing. This, however, was done largely on an individual basis rather than a co-ordinated effort by the growers, management and government agencies. Then came World War II, with its acute labor shortage and strong demand for domestic sugar, and during that period definite progress was made toward mechanization.

The objective in mechanization is to obtain a single germ seed growing in rows 12 inches apart with no weeds surrounding them and to get a machine to cut the tops clean from the root, save the tops in some way for stock feed, and elevate the boot roots into trucks free from dirt, rocks and trash.

"These phases of our work are the

most difficult to accomplish," he said. During the past few years many machines have been built and are doing good work and last year in the United States there was a marked increase in the number of beet units owned and operated by the farmers and a decrease in the number owned and used by the sugar companies.

The expert stated that it is possible even today to grow beets without touching them with hands. "It can be done in the following manner: First, by using processed (segmented) seed and the precision drill in planting; secondly, by long-handled hoeing or spraying with chemicals for weed control; and thirdly, by using a sugar beet harvester."

He said by these methods the sugar per acre will not be lessened and the man hours of labor will be cut fifty per cent.

Such is the trend in the beet industry in Southern Alberta as in other beet growing areas in Canada and the United States. The acreage to beets in Alberta this year is an all-time high and it will be increased next year, it is expected, when the \$3,000,000 Taber plant of Canadian Sugar Factories will go into operation. It was started in 1946, and when completed will be able to slice over 1,700 tons of beets a day, taking care of the expected increases in beet growing with the extension of irrigation east from Taber through the Purple Springs, Grassy Lake, Burdett and Bow Island districts.

The first factory was built in Alberta at the turn of the century, but it was not permanent and eventually was moved back to the States. The farmers preferred to raise wheat to beets hence the production dropped steadily. Discouraged, the company moved the mill. In 1925 the second Alberta factory was built at Raymond and in 1936 the Picture Butte factory was built. Thus, the Taber mill will give the company three modern factories. Today the production of pure Alberta beet sugar is over 100,000,000 pounds annually, marketed in Western Canada. It represents an industry returning over \$10,000,000 in new wealth annually from its various phases, a vital factor in the Alberta agricultural economy.

### Pig Brooders Can Start Fires

If you're using a pig brooder, keep the straw litter in the farrowing pen away from the light bulb.

The bulb used for heat gets hot enough to set the straw on fire if it comes in contact with it. A piece of hardware cloth nailed across the hole in the top of the hover and under the light reflector will keep the bulb away from the straw.

# Moose Jaw Was Once A Reptilian Paradise

By MARGUERITE McLEES

IN the colourful era before the turn of the century, nature presented many strange and thrilling sights to the newcomer to Canada's western prairies. Of these, few could surpass in fascination, the reptilian domain, where snakes in countless thousands greeted the eyes of the first settlers to the prairies of Southern Saskatchewan.

The denizens of this domain, who were of the harmless variety of snakes, known as garter snakes, chose a hilltop as the location of their permanent site. Appropriately called "Snake Hill" by the earliest settlers, the name persisted throughout the several decades of its existence.

The hill was situated at the southeastern extremity of the present city of Moose Jaw and served as the winter abode for most of the snakes within a large area. The bubbling waters of a small river flowed merrily by its base, and trees and tangled undergrowth studded the river banks and covered the hilltop. A maze of burrows, made by the serpents, gave access to the regions within.

When the colour of the leaves deepened and autumn came to the prairies, the snakes, prompted by the age-old call of wild things to return to their winter quarters, started on their journey back to "Snake Hill." The countryside then became dotted intermittently with wriggling bodies on their way homeward. The stream which cascaded at its base, too, carried its share of gliding bodies.

Thus in late fall the entire hill became a crawling mass of serpents. As the cold weather advanced, the reptiles sought refuge in the warmer regions of the hill's interior. There, firmly ensconced, they slept through the long winter months, safely protected from the chilling winds of the prairies.

When the first rustlings of spring were heard, however, their torpid faculties awoke, and they emerged to lay basking in the early spring sunshine in huge coiled masses. Large numbers of them also sought to expose themselves to the sun's warmth, by coiling around the trunks and branches of the trees that grew there.

The sun brought life back to their inactive bodies, and before the warmth of spring had given away to the heat of summer, they had set off for their haunts in the rolling expanse of prairie that stretched beyond the river. There was always enough activity on "Snake Hill," however, to indicate that only a part of their number had departed for the summer months.

It was at this season of the year that snake hunting became the most popular sport, of young and old alike, of the male population. If one of the

local belles wondered why her beau failed to appear, at the appointed hour, to take her Sunday afternoon buggy riding, he was probably being detained, with the rest of the young swains, down by the river killing snakes.

In the drowsy heat of a summer afternoon, the hunters, armed with a suitable weapon, usually a stout stick, invaded the quiet peacefulness of the snake habitation. As they advanced, the snakes endeavoured to flee for the safety of their burrows, but a few blows from the sticks, in the hands of the hunters, were usually sufficient to kill the fleeing serpents.

Newcomers who tended to be skeptical of the tales told about Snake Hill, were afforded visual proof to substantiate the claims of hunters, by participation in one hunt. The pile of snakes that each hunter had accumulated, at the end of an allotted period of time, was a criterion of the man's ability as a snake hunter.

So vast were their numbers, that residents in the vicinity, had to learn to tolerate these harmless serpents in their midst or abandon their premises. Housewives, who lived nearby, became accustomed to vigorously flourishing the broom several times each day to disperse the sleeping reptiles from their doorsteps.

Buildings that suffered the fate of being abandoned, were found, upon later inspection, to be infested with snakes. Houses, especially, to which the reptiles had been able to gain access, revealed grotesque sights. Snakes peered from the ledges above doors and windows and lay coiled and wreathing on window sills. Attic and basement were alive with them, while many of their number had embedded themselves behind the plaster of the walls.

No decrease in their numbers was apparent after several decades, but they continued to flourish on, observing the seasons with their migrations to and from Snake Hill.

The main roads, for miles around, bore witness to the vastness of these spring and fall snake migrations for there could be found on them in fairly close precision, the bodies of the reptiles where they had been crushed beneath the wheels of passing vehicles.

The snake reign abruptly came to an end one summer, when the construction of a road was started on the outskirts of the hill. The snakes, sensing that their existence would be permanently threatened by this innovation, decided to abandon their hilltop paradise. Their departure from the hill was closely followed by their departure from the surrounding countryside. Now, several decades later, no trace of them can be found in the vicinity.

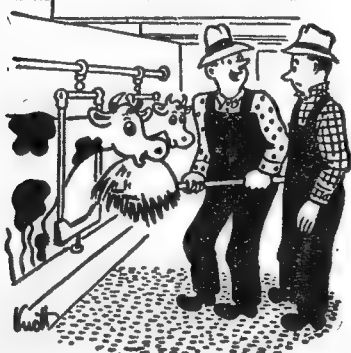
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## Federal Fair Displays

EXHIBITS based on moisture conservation; poultry management and swine production will be sent to the rural fairs this summer by the Federal Department of Agriculture.

A special section of interest to farm women will be the "Buy By Grade" exhibit arranged by the consumer section of the Department of Agriculture which through its grading regulations gives protection to both producer and consumer.

The annual fair will be held in Brandon June 28 to July 2; in Calgary July 5 to 10; in Edmonton July 12 to 17; in Saskatoon July 19 to 24 and in Regina July 26 to 31.



"Shows what good breeding will do—She insists on eating with a fork."

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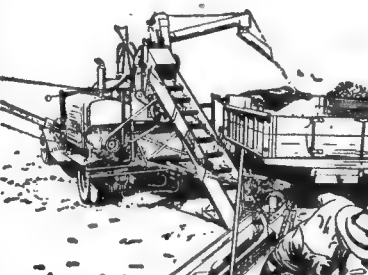
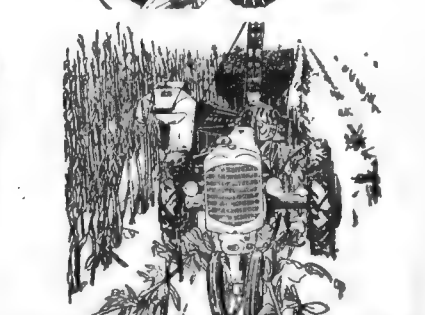
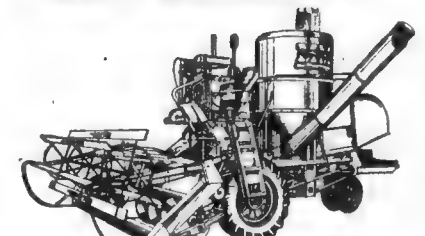
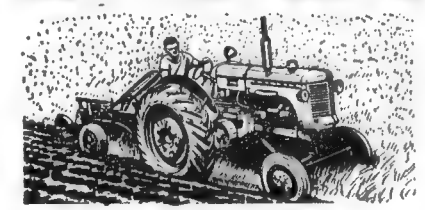
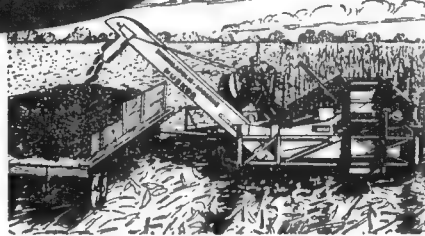
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# Breeders' Notes

## British Scientists Change Breeding Rhythm In Sheep

Experiments conducted successfully at Cambridge University may revolutionize sheep breeding.

By PAUL WEST

LONDON: — The nature and origin of food scarcity; if the mysterious of breeding rhythms in animals connections could be explored, the key are of economic, as well as of scientific importance. Knowledge of the factors affecting breeding rhythms is of special importance in these times

With this in view the School of

Agriculture at Cambridge undertook breeding research on sheep in September, 1946. The scientists were asked why the reproductive organs of British ewes remained inactive during the spring and most of the summer, and if it were possible to stimulate ewes to breed during those seasons. If this proved to be the case man would be able to achieve what nature had never managed—to produce autumn lambs; for nature's laws permit no lambing between September and December in the United Kingdom, or in most parts of the northern hemisphere. British scientists realized that if they could solve this problem, they would render a great service to many countries which for various good reasons attach great importance to autumn lambing.

It can now be stated that the School of Agriculture at Cambridge has succeeded in exploring the background to the breeding rhythm of sheep by means of many thorough and interesting experiments. They have even shown that it is possible in practice to take charge of nature and use artificial factors to reverse completely the physiological breeding habits of ewes.

### Rich In Hormones

The starting point for these investigations was the assumption that light effects have an influence on animal breeding. The light strikes the animal's eye and produces a reflex which is transmitted to the pituitary gland. This gland lies in a depression at the base of the brain; it is about one centimetre across, and consists of three parts, the most important of which is the anterior pituitary. This part is very rich in hormones; it encourages the animal's growth, and stimulates the sexual urge. Observations have shown that the natural breeding time for sheep in Britain begins 10-14 weeks after the longest day (usually June 21), and ends 10-14 weeks after the shortest day (usually December 21).

Farmers have never been concerned with this aspect of the relationship; to them it seemed only the expression of a natural breeding rhythm. But scientists suspected that the breeding rhythm in sheep was dependent on the rhythm of the seasons, the duration of daylight affecting the activity of the animal's pituitary glands, and hence their sexual urges.

The Cambridge School set to work by altering the rhythm of the seasons, using artificial light. For the sheep under investigation the shortest day was advanced by two months, to the middle of October 1946; strong electric lighting was used to lengthen the days artificially from this date onwards. Thus to the sheep being tested the days seemed to be growing longer, while in reality they were still growing shorter. At the beginning of the tests, on the shortest day, that is, the daily light ration given to these Suffolk sheep — named after the English county — amounted to some 13 hours a day; from then it was gradually increased to 21 hours a day.

All hopes were fulfilled: the test sheep ceased to breed 10-14 weeks after their shortest day (mid-October), two months earlier than usual.

### Reverse Process

After this success, the reverse process was tried — the advancement of reproduction in ewes, so as to produce autumn lambs. The test sheep were given their longest day on March 23, 1947. On this day they were given a light ration of almost 14 hours; from then on their daily light ration was gradually cut down to five-and-a-half hours by driving them into a

darkened byre for several hours a day. It was maintained that if the calculations were right, breeding should begin 10-14 weeks after the longest day (March 23), i.e. at the end of June. In fact, it began on June 28; and for the first time Suffolk lambs were born in October and November.

This was scientific proof that the breeding rhythm of sheep is not inherent, but that animal's sex glands can be controlled by light effects. The rise and fall of the daily light ration determines the rate at which the pituitary gland sets free the hormones which stimulate the sexual urge. The tests also proved that the reproductive urge in ewes can be controlled by artificial light effects.

Considering the value of sheep in providing the world with food and textiles, this British discovery may lead to far-reaching practical consequences.

## Dwight Ellis Will Guide Alberta Percheron Club

AT the annual meeting of the Alberta Percheron club, Dwight Ellis was returned to president, A. J. Gregory was elected as vice-president and Hardy E. Salter was re-elected secretary-treasurer.

The following directors were elected: L. O. Crockett, Mayerthorpe; Carl Hanson, Brightview; O. H. Cooper, Winnifred; J. Ollerenshaw, Ogden; R. O. Sykes, Calgary; N. S. Charlton, Carstairs; W. A. Greenway Acme; C. C. Matthews, Calgary; R. J. Widney, Calgary, and H. Arbuckle, Airdrie.

The executive committee consists of the president, vice-president, secretary, and R. J. Widney and L. O. Crockett.

To represent the Alberta Percheron breeders on the directorate of the Alberta Horse Breeders Association the following were nominated: Dwight Ellis, Hardy E. Salter, J. Ollerenshaw and R. J. Widney.

Selected to judge percherons at the Calgary Exhibition was Geo. T. Fraser of Tate, Sask.

Selected to judge percherons at the Edmonton Exhibition was W. A. Greenway of Acme.

It was recommended by the meeting that the Royal Winter Fair, Toronto, be asked to leave the get of sire and progeny of dam classes open to competition by horses of any age.

The Edmonton Exhibition Company was asked to split the heavy horse grade classes by breeds, the same as Brandon, Regina and Calgary have done. Also that the two-horse purebred teams and grade team be shown together.

A resolution was passed asking the provincial government to give bonuses for purebred foals from approved stallions and mares.

## Sloping Floor Protects Infant Pigs

Because the foundation of a farrowing house settled, causing the floor to slope, a method was discovered to prevent a sow lying upon and crushing young pigs. It was found that the sow always preferred to lie with her back toward the high side of the floor. Newly farrowed pigs do not move about much during the first few days of life and, due to the sloping floor, they cannot climb and get into a position where they might be crushed. Experiment has shown that a floor slope of about 1½ in. to 1 ft. works well. The floor of any portable house can be slanted by blocking.

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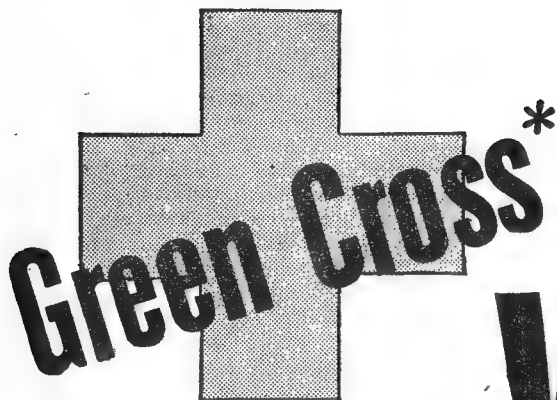
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## The Grain Exchange And Floor Prices

In the "FARM AND RANCH REVIEW" for April, 1948, on page 6, you carry an article quoting a statement I made at the end of my "World of Wheat" article of March 10th on Coarse Grains, which was as follows: "Prairie farmers, I suggest, should protest any lowering of coarse grain prices", and in your editorial you ask "To whom should the farmers protest?"

My "World of Wheat" article clearly suggested that farmers should protest to the Government against putting coarse grains under the Board, for fear that such action would bring them lower prices.

With all due courtesy I must sharply disagree with your statement that coarse grain prices have recently been lower than they were at their peak because of speculation on the Chicago Futures Market. Most definitely this is not so. Speculation has but a microscopic effect on prices. Prices are made by the factors of supply and demand. As these factors fluctuate so will prices fluctuate under any system. It is inevitable. Proof of this is shown by prices set by our Wheat Board itself for Class 2 wheat, which in January and February, 1948, fell 75 cents in 24 marketing days (\$3.37 on January 16th and \$2.62 on February 13th) and our Wheat Board is instructed by the Dominion Government to set prices for wheat that are "reasonable". Evidently then the Wheat Board considered that the drop in the price of wheat, 75 cents in 24 marketing days, was warranted and "reasonable". There is no open wheat market in Canada, and therefore no speculators, other than farmers and tax payers, influence either the market or the Wheat Board which organization can set the price of wheat at anything it likes. The lowest prices received by farmers for oats and barley since Oct. 21st, when these grains were taken away from the Board, have been higher than the highest price they received when the Board set prices. On wheat, as you know, since wheat has been under state monopoly, our farmers have lost \$10 million dollars on the wheat they have hauled to elevators, and which was destined for Britain, and an additional 158 million dollars on the wheat destined for Canadian consumption in the past 21 months, that is, from Aug. 1st, 1946, to this date, an enormous loss, I suggest, for the privilege of having wheat marketed by the State Monopoly.

You are quite wrong when you say that no protest against low prices was made by the Grain Trade during the years of the depression. During those years the Grain Trade sent a delegation to Ottawa, asking the Government to set a floor under wheat prices. I myself, on behalf of the Searle Grain Company, in 1930, when we saw prices falling, then compiled the well-known Searle Index which set out every two weeks the low purchasing power of a bushel of wheat, and time after time we suggested remedies to restore the farmer's purchasing power.

It is quite true, as you say, that the Grain Trade have no control over prices. Prices are controlled by world-wide factors of supply and demand

over which no man has any control. Prices, therefore, must ever fluctuate. The protection of the farmer lies in but one way, it seems to me, which is for the Government to establish a floor price. This has already been done, quite apart from the Wheat Board or Wheat State monopoly at \$1.00 a bushel over a period of 5 years. The implementing of a floor price of \$1.00 or higher does not require that the Government should be given the sole power to market and to set low prices on wheat or coarse grains.

Very truly yours,  
H. G. L. STRANGE.

Director, Research Department,  
Searle Grain Company, Limited.

EDITOR'S NOTE:—Mr. Strange's effort to divorce the reduction in price of Class 2 Canadian wheat from the crash in the Chicago market is hardly worthy of a serious answer. Instead, we direct our readers' attention to his last paragraph — a frank confession that the futures market has no solution and can offer no possible solution for the problem of crop surpluses. It can only provide the machinery by which prices are driven down to the ruinous levels on the hungry '30's.

## Speculation or Gambling

To the Editor:—

The Grain Exchange does differ in no way in the whole world of a free enterprise economy. There's no gambling but only speculating, and that does not hurt farmer or consumer. If one speculator wins, another will lose. Futures market is a necessity to the advantage of the farmer, because it takes the risk from the elevator company. Cash grain can only be dealt with in the terminals but not in the country elevator. If all our grain could be sold on the domestic market, there would be no problem at all, but we have to sell our surplus on the world market. It is absurd to compare carpenter's wages or beet prices with our grain. Beets are contracted with the factory. Whole grain has to compete with about four or five other grain exporting countries. But all polemic is useless, as the farmer cannot see. Try to get rid of the government monopoly so that the farmer can sell where he pleases, Grain Exchange or Wheat Board. We will quickly find out what is the best.

Dapp, Alberta. William Fabriz.

## The Idea Spreads

To the Editor:

In view of the fact that the Farm and Ranch Review originated this idea, I thought you would be interested in the fact that the Saskatchewan Liberal party has adopted it. Here is what Mr. Tucker said at a recent meeting in Cadillac as reported in the Star Phoenix:

"Mr. Tucker said the Saskatchewan Liberal party plan had a twofold objective: First, to bring freight rates in the west down to the level of those in effect in the east against water and truck transportation, and, second,

(Continued on page 25)

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(Continued from page 24)

to lift the burden from the west of freight charges across the 1,000 miles of barren, unproductive western Ontario area, which the west now paid on both eastbound and westbound freight. This would greatly cheapen the costs to the west of freight shipments both ways and thereby give a tremendous impetus to national development.

"When the railways were built, Mr. Tucker said it was considered in the national interest to cross this barren strip to keep Canada's trans-continental lines on Canadian soil instead of permitting them to build through more productive territory to the south, in the United States.

"Since it was deemed in the national interest to build the railways entirely in Canada, Mr. Tucker contended it therefore followed that it was a national responsibility of the west to defray the high costs of shipping across this barren territory.

"Mr. Tucker declared absorption by the federal government of the costs of maintaining railway service across the barren western Ontario area would provide the railways with sufficient revenue to lower freight rates in the west to the level prevailing in the east, and pay increased operating costs, without the increase in rates which was recently granted."

I thought it rather peculiar that Mr. Tucker took your idea but gave you no credit for it.  
Saskatoon.

A. Anderson.

EDITOR'S NOTES—We claim no copyright on the idea of "canalizing" the unproductive freight haul through Northern Ontario. That idea has been in existence a long time. We don't know whether it is practical or not but we certainly want to see it investigated. We are delighted to have Mr. Tucker take it up.

\* \* \*

## Canadian Versus U.S. Prices for 2-4-D.

To the Editor:

I read with interest your editorial on Customs Union and was pleased to see the matter brought to our attention in the May issue once more.

Living close to the border and having to make many trips across the U.S. I am brought close to differences that exist in the prices of similar products on both sides of the border and could cite many cases but I think one will be sufficient.

2-4-D Ester is sold here in Creston for \$12.50 per gal.

Any farmer can cross the line and buy a stronger concentration of Ester 2-4-D for \$8.50 and bring it back with a tax of 7% added, granted the U.S. gal. is smaller but it does not take much figuring to see that the product is sold much cheaper in the U.S. and by the same companies that are selling it in Canada.

I believe that the subject of Customs Union could be brought to the attention of interested groups and a strong public opinion developed in favor of it if the facts of the case were stressed and presented and I take this opportunity of commending you upon the stand you have taken towards the emancipation of the West.

Our only chance in the West of getting a fair deal is through Customs Union, and I personally will do all I can to spread knowledge of this among my contacts and acquaintances. — W. G. Anderson, Creston, B.C.

## Clarifies Its Position Save the Weasels

To the Editor, — Having read your article "Predator Police Force" in the March issue of the Farm and Ranch Review and being very interested in the preservation of wild life, I would like to take the liberty of writing you and expressing my appreciation of this and other work you do in this line.

In a recent issue of Maclean's Magazine there was an article dealing with the seriousness of the rat hazard and the great damage rats do throughout North America. I believe that one of the best means of rat control would be to do something to increase the number of weasels in all rural areas. I say this because I have had the chance to observe a weasel where rats are bad. Not only are rats greatly afraid of weasels but a weasel can go almost anywhere a rat can. A comparatively small weasel can kill and drag out a rat of astonishing size from beneath a pole floor or some other place where nothing else could go.

I know that there is the old bogey of the wanton destruction of poultry by weasels but this is largely exaggerated. We had a weasel live in a burrow in the hen house floor most of one winter without losing any fowls. Poultry loss this way would be far outweighed by rats destroyed. Rats themselves cause more damage to young poultry than all other things put together in some vicinities.

What measures should be taken to increase the weasel population? Here is what I would suggest: That there be a year round closed season on weasels which might not in itself be enough but enact legislation making it illegal to traffic in weasel skins in any way. While we have raw fur quotations for "weasels" up to \$5.00 we may expect depletion of these animals almost to extinction, and I think a weasel pelt will do a lot more good on the back of a live weasel than that of a debutante in Toronto or New York.

I feel that one way to get action on a matter such as the above, is to bring it to the attention of a man such as yourself who is an authority on wild life and has influence with all those interested in nature.

Hoping you will give this your earnest consideration, I am, Yours truly, Harold J. Parker, Kennedy, Sask.

\* \* \*

## Note of Approval

To the Editor:

The FARM AND RANCH REVIEW has been read by me for many years with much profit and interest, especially the editorials, so plainly and truthfully written, being quite the best I have seen on the subjects treated with special mention on that tribe known as the Winnipeg Grain Exchange. I know much of their power and doings, tipping the market in either direction as it may suit their profit. Keep after them, they seem to be nearly uprooted at present. More power to you on the subject. I learned much of their doings while growing 25 crops at Innisfree, Alta. I should like also to say that your method of relieving the freight burden on Western Canada seems quite reasonable and proper. Dominion take over the unproductive mileages.

I am now retired at the address below but find your paper very interesting. — R. C. Furnes, Port Perry, Ont.

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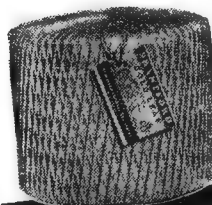
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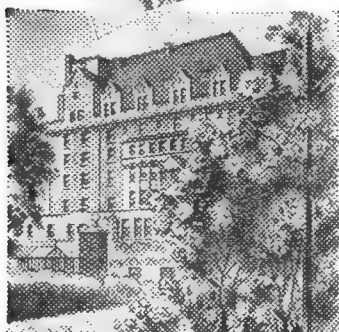




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## Let's Take a Look At The Brighter Side

By BEN MALKIN

IN its search for peace and stability, the world has accomplished more, perhaps, in the past two or three months than it did in the whole of the first two years following the war.

Now, with the moderate, almost conciliatory tone adopted by the Soviet Union in its recent exchange of notes with the United States, it is not too much to hope that this year will see the elimination of those political tensions between east and west which have compelled the western world to devote much of the energy which should go into economic reconstruction into military defence instead.

The events and policies which led to the present situation may be briefly reviewed.

The war was no sooner ended than the Soviet Union abandoned its policy of wartime collaboration with the west, and instead virtually declared war on the west. This it did chiefly through a letter written in the spring of 1945 by Jacques Duclos, a leading French Communist, to the American Communist party, declaring that the duty of Communists now was to make war on capitalist countries everywhere, with a view to establishing Communist power as widely as possible throughout the world.

This policy was based on the belief in Moscow that western capitalism, particularly in the United States, was dying, that a deep economic crisis, with universal unemployment and suffering, was inevitable in the United States, and that this economic crisis would lead to the fairly easy seizure of power in the U.S. by the Communist party.

It is worth noting here that this view of the American economy was supported by the then U.S. Secretary of Commerce, Henry Wallace, who also argued that the American economy, built on the needs of war, could not readjust itself to the needs of peace.

On this theory that western capitalism was dying, the Soviet Union went blithely ahead and through its subservient Communist parties in eastern Europe, seized control of a whole series of countries. This process culminated with the seizure of Czechoslovakia on February 20.

Meanwhile, the United States and western Europe, far from dying, reacted to these events by flexing giant muscles and giving clear warning to Moscow that further foreign adventures after Czechoslovakia would result in a war.

Western Europe quickly formed a union of five states bound militarily and economically against further Soviet expansion. The U.S. Congress speedily passed a bill providing billions of dollars for the reconstruction of Europe, and began to restore the U.S. armed forces which had been drastically depleted since the end of the war. And the Soviet Union was warned in unmistakable terms that the United States, far from collapsing, was prepared to go to war with Russia if that step were necessary to contain further Soviet expansion.

These were the chief steps taken by the west in the cold war which Russia had waged against it since 1945.

W. Bedell Smith, U.S. ambassador to Moscow, on May 4 outlined these

steps to Russian Foreign Minister V. M. Molotov, and pointed out that each step taken by the United States and western Europe toward preparation for war had been taken as a result of Soviet aggression.

Molotov's reply to Smith's note was interesting. Smith, in presenting the views of his government to Molotov, had merely presented them as a warning to the Kremlin that the United States and western Europe were prepared to defend themselves against further Soviet expansion.

Molotov chose to interpret the note as an invitation for Russia and the U.S. to discuss their differences and attempt to achieve a settlement, an interpretation which is not true, but which indicates that Russia at last is worried about the strength of the west. Further, although his reply to Smith was quite moderate and courteous — an unexpectedly pleasant departure in Soviet diplomatic language — the reply, in effect, tried to make out that Russia was an innocent, aggrieved party whose "peaceful" intentions were completely misunderstood by the west.

Following Molotov's statement, U.S. Secretary of State George Marshall said that Smith's note contained no invitation to Russia to hold bilateral discussions with the United States for the purpose of settling the fate of the world. He said that such discussions could only be held within the United Nations, where the rest of the world, quite rightly, would have something to say about its destiny.

One thing is certain. While there is now hope for a reconciliation, until the fundamental Soviet attitude that the west is bent on an economic crisis that will destroy capitalism is changed; until the Kremlin is prepared to concede that it, too, can be wrong, and that perhaps it is the west rather than Russia which is the aggrieved party, there will be little value in discussions between Russia and the rest of the world toward a settlement.

On the other hand, the very fact that since February the Soviets have somewhat moderated their tone in dealing with the west indicates that they have taken seriously the warning, implicit in American re-arming. Let us hope so. At the present moment, only by a continued firm show of strength can the west hope to deal with Russia — and therefore prevent a war.



"She was raised on condensed milk."

# Once a Secret Weapon Now Weed Killer No. 1

By MAUD FERGUSON

OTTAWA: The No. 1 chemical weed killer 2,4-D was once a weapon of war. In 1940 it was kept on the secret list as an important part of the biological warfare plan. However, the atomic bomb was completed in time and 2,4-D never did pour down devastation on the crops of Japan.

Like all chemicals having to do with the life element, 2,4-D can increase growth as well as kill it. As it was found to be devastating to soya bean, cotton and truck crops vital in Japanese agriculture, it was destined to play its part in the destruction of that country.

Today its life-giving properties have been put to good use. In small amounts it has produced seedless tomatoes, prevented apple drop and has encouraged pineapples to flower. However, as a weapon in the perpetual battle waged against weeds, it has had its greatest success, and thousands of acres of land in Canada destined to be plowed in because of weeds, are now yielding valuable crops of cereals. In 1947, 500,000 acres in western Canada were treated

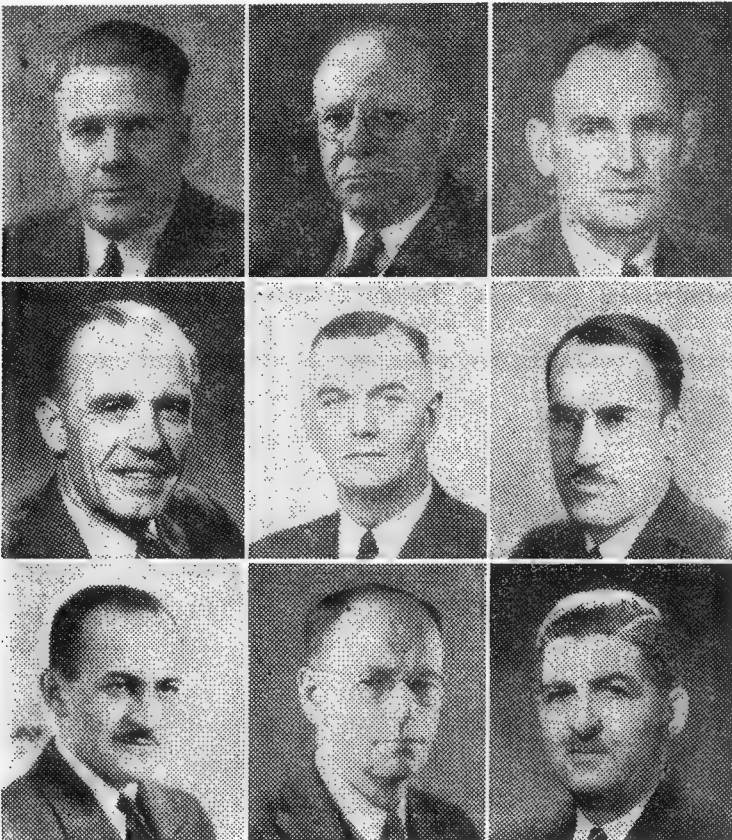
with 2,4-D and a United States authority reports that five to ten million acres will be treated in 1948.

In the west probably the two weeds on which 2,4-D has best effect are Wild Mustard and Stinkweed. However, Wild Oats cannot be touched with it. In fact, as competitor weeds are killed by the chemical, wild oats is apt to increase in growth as are other weeds resistant to the chemical.

It is for this reason that Dr. R. O. Bibby, of the Dominion Department of Agriculture and secretary of the National Weed Committee emphasizes the importance of maintaining the basic weed control principles and using 2,4-D only as an additional weapon.

He points out, however, that constant experiments are being made and the scope and usefulness of chemical weed killers is steadily growing. "When we consider," he said "that weeds represent one of the greatest losses with which farmers have to contend, representing to the farmers of Canada about \$20,000,000 a year, we can get some idea of the potential significance of these new weed killers."

## Federation Delegation To World Conference



FOR the third successive year, organized agriculture in Canada, functioning through its national organization, the Canadian Federation of Agriculture, will be represented by a delegation to the International Federation of Agricultural Producers, meeting this year in Paris, France. I.F.A.P., as it is known, was organized in London, England, in May, 1946, when 16 delegates from the Canadian Federation of Agriculture attended, headed by H. H. Hannam, President, who was at that time named third vice-president of the new international organization. In 1947 the first annual meeting of the organization was held at The Hague, Holland.

The Canadian Federation's delega-

tion this year are shown above.

Top row: H. H. Hannam, leader of the delegation; J. H. Wesson, President, Saskatchewan Co-operative Producers; Roy Marler, Chairman, Alberta Federation of Agriculture.

Centre row: R. W. Morrison, Vice-President, Ontario Federation of Agriculture; George McConnell, Vice-President, Manitoba Pool Elevators; Romeo Martin, Secretary, Co-operative Federee de Quebec.

Bottom row: T. Melzile, Secretary, l'Union Catholique des Cultivateurs, Montreal; Roy Grant, Secretary, Maritime Federation of Agriculture; C. D. Graham, Deputy Minister of Agriculture for Ontario, who accompanies the delegation as an observer.



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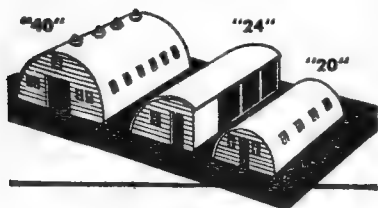
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## The Prices Probe Is Getting Nowhere

By MAUD FERGUSON

**OTTAWA:** The Price Probe drags its weary length along. No one expected it to have much effect on prices. However, it was hoped that it would clarify the cause of the price rise and, if there were a nigger in the woodpile, rout him out.

So far no man-sized nigger has emerged. It has become evident that one of the largest contributing factors in the rising cost of living is the increased price to the producer. No one is criticising this. His problems and costs have been thoroughly discussed and it is realized that producer prices should never again sink to the low level of the "dirty thirties". It is merely a fact that must be recognized.

In between the producer and consumer lie a whole series of price "mark-ups". Many of us thought that it would be there that the nigger would be found, but so far only an infant-sized nigger has emerged.

Price mark-ups work in a mysterious way to the innocent layman. If there is a 10 cent rise in the price paid the producer of beef, for instance, there is, all along the line a 10 per cent mark-up for packer, wholesaler and retailer. This happens before the higher produce price even hits the wholesale and retail shelves.

### Hit With a Wallop

In the case of the overseas contracts for beef and bacon, for example, as soon as a higher price was announced by the government, the packer, the wholesaler and the retailer all whacked on their increase. Because of this, instead of letting a higher price creep up on the consumer, it hit him with a wallop and he let out a yell. The middlemen stood to gain at once, along with the producer. It was the consumer who paid. The middlemen claim they must do this because working in an unpredictable market the day always comes when they must take a loss.

Excellent producer briefs were submitted by H. W. Allen, of Hualien, Alberta, President of the Alberta Live Stock Co-operative Ltd., Edmonton, and by H. J. Hargrave, Superintendent of the Dominion Experimental Station at Swift Current, Sask.

Their evidence was followed by George G. Ross, Aden, Alberta rancher who put on the record facts which provided important data on the cost of running his business and who made the following statement on the cost of producing grass beef.

"The average price of grass beef in Calgary in 1947 was 10½ cents" said Mr. Ross. "The cost of producing beef, giving 5 per cent on the investment, is 8½ cents. Now if one beef animal on grass produces 250 pounds a year at 2 cents per pound profit, that gives you \$5 per head in addition to the 5 per cent. That gives you 7½ per cent profit on your investment in producing beef in 1947.

"That figure is exclusive of costs such as most stockmen in Alberta are faced with this Spring — heavy cost of feeding, and losses of calves. In 1947 we had a pretty good year all the way through . . . I would like to make this further remark that in the last few years our production of beef, according to our export record, has gone down. If the Canadian consumer wants beef, the consumer should encourage the production of beef. The imposition of ceilings or the threat of the imposition of ceilings will go to the reduction of the production of beef and, if we are short of beef, the price will be higher to the consumer.

These comments show the inclination throughout the Price Probe Inquiry of introducing the subject of controls. Whether it is in the manner in which committee members put their questions, or the replies made by witness, there is evidence every day of divergent views on the matter of controls. So far it can only be

seen that the price structure requires either complete control or complete de-control. Half-way measures are insupportable.

...

## Market For Turkey Eggs Is Growing

**A**N opportunity for entering the newest branch of the turkey industry — that of supplying hatching eggs to the commercial hatcheries — is suggested by D. C. Foster, Poultry Specialist, Manitoba Department of Agriculture.

"More and more producers are now purchasing day-old poults from breeder and commercial hatcheries," Mr. Foster points out. "In 1947, Manitoba hatcheries imported large numbers of turkey eggs from the United States. This year, the necessity for saving American dollars has restricted the supply from this source — opening the way for our own producers to take advantage of the growing market for hatching eggs."

In the raising of turkey poults, the essential points are:

1. Poults hatched or obtained from approved and blood tested stock.
2. A clean, dry, moveable and well ventilated and insulated brooder house, (10'x12' or 12' square for 100 to 150 poults).
3. Plenty of sunshine.
4. Clean range and pasture.
5. No contact with adult turkeys or chickens.
6. Scientifically balanced rations.
7. Plenty of clean fresh water or milk to drink during the growing period.
8. Shade, provided by annual crops, such as corn or sunflowers, or poles covered with straw.

Further information regarding the brooding and feeding of turkeys is contained in the pamphlet "Turkey Poults for Profit," which may be obtained from the Publications Branch, Manitoba Department of Agriculture, Legislative Building, Winnipeg.

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## ... AT THE SIGN OF THE BIG-



# Manitoba Flood Damage Heavy Over Large Area

By M. TREVOR HOLLAND

**MOISTURE**, under normal conditions, is a boon to grain growers, but moisture, as experienced by Manitobans in the form of floods this spring, particularly to individual farmers situated in river valleys and flat lands adjacent to the rivers that drain poorly, caused heavy losses. Taking the overall picture of the Province, however, the situation does not appear as serious as first anticipated.

Flood conditions from small rivers and streams in the northern parts of Manitoba, which threatened part of the Swan River valley and the areas commonly referred to as the Dauphin Plains, have abated and there is little or no indication that any of this land that was intended for crop this year will not be sown.

In the Red River valley, from the International border to Lake Winnipeg, areas that were under water during the worst flood in 16 years are now largely free and, in many of the sections inundated, seeding was general by May 22. Even in the very flat areas running from Morden south to the border, and east to the Red River, where practically all of the sunflower and corn crop of Manitoba and a large percentage of the sugar beets are grown, some increase in the acreage seeded to these crops is predicted.

There are indications that farmers who were deciding against seeding wheat, due to the lateness of season, are buying additional quantities of flaxseed. Seed supplies of this oil-crop were quickly exhausted.

The flat valley land of the Assiniboine, west of Brandon, presents a different picture. Most of this section

was under water until almost the end of May. Some of this is almost certain to be deprived of crops this year. However, this land will in all probability be summerfallowed and in excellent shape for the 1949 crop.

Peculiarly enough, the territory through which the Assiniboine winds from Brandon to Portage la Prairie is essentially a non-productive area as far as crops are concerned. Much of this territory produces scrub oak, spruce and somewhat light pasturage on soil that is largely sand to sandy loam.

From Portage la Prairie east to within 20 or 25 miles of Winnipeg, the Assiniboine flooded its banks to roughly 5 miles north and south of the river. Much of this is heavy land and will be slow to drain.

Despite these losses, the area lost to production this year for the whole province will be exceedingly small and probably considerably less than 1 per cent of the total cultivated area of Manitoba. Taking the province as a whole, some authorities consider it quite likely that the saturated lands will benefit a far greater number of productive acreages than the total lost to production this year.

The outlook for this year's crop in Manitoba, in view of the lateness of the season, hinges on continued bright, dry weather, to permit seeding of maximum amount of acreage in the shortest period of time, without running into the normal time for fall frosts.

There will, undoubtedly, be some farmers that will be forced to seed late into the season, even knowing they may face serious frost damage before harvest.

## New Type Wheat Grass Grows On Alkali Soil

A GRASS that is resistant to alkali and will grow on lands previously incapable of raising any type of crop, is being developed at the Swift Current experimental station.

The grass is Tall wheat grass, a distant cousin of crested wheat grass, and also has possibilities for irrigated and spring flooded zones, according to Roy McKenzie, of the forage crop department of the station.

Mr. McKenzie said that while crested wheat grass is still the big standby, other grasses are being developed which will be useful as supplementary crops in early spring and late fall.

One of the outstanding is Russian wild rye, a highly drought resistant variety originally imported from Russia and brought to Swift Current station from the United States.

Russian wild rye is strictly a pasture grass for spring and fall. It is good in early summer, too, for grazing, Mr. McKenzie said, for when crested wheat grass becomes unpalatable the Russian rye crop is ready for consumption by livestock and will remain palatable throughout July.

The major problem with the Russian wild rye is seed setting. Tests are under way at Swift Current and Lacombe for ways of increasing seed by row spacing.

A feature of the grass is that the plant will hold together over winter, and cures well on the ground over winter.

Mr. McKenzie stressed the fact that this is not in any way considered to be a hay grass, "It is excellent to

seed to waste land to stop drifting," he said.

Green Stipa grass, another new variety, is a form of spear grass that thrives on heavy clay and provides a quarter of the forage on the Matador range. It will yield sufficiently well in some years to make a good hay crop, he said.

## MANITOBA BRIEFS

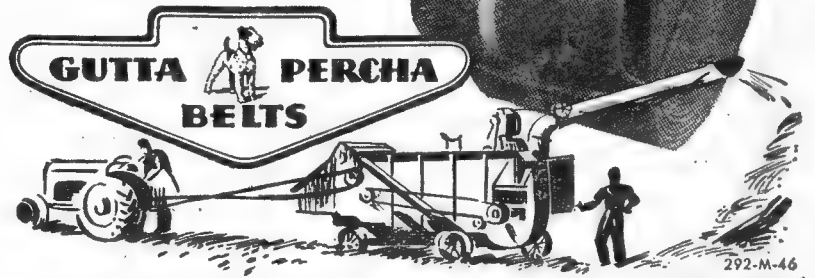
Prizes totalling \$400 are to be given to groups of farm women in the "Better Farm House Competition", which closes August 31, 1948. The contest is open to all groups of farm women in the provinces of Manitoba, who will be asked to answer a number of questions on housing and what women want in their farm homes.

A total of 175 head of cattle were shown at the annual Neepawa Fat Stock Show and Sale, and included many entries from six junior calf clubs in the region. The grand championship of the show went to C. R. Kinney, Brookdale, whose 940-lb. Aberdeen-Angus steer was sold later at an auction for 50 cents a pound.

Winner of the 1947 Manitoba Flax Competition and the silver cup awarded annually for the event is F. Van Ryssel, of Oakbank, who scored a total of 187 points out of a possible 200 with his standing-crop and-threshed samples of flax.

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## Painless Baby

SOME babies "never cry." In this case, it was almost literally true. Beverly Smith didn't cry when she fell down; she never cried when she burned her head. She didn't even cry when she burned her hand on a hot stove.

When she was a year old, anemic Beverly was taken to Akron's Children's Hospital. A deep injection of liver extract for anemia is painful, and babies usually howl vigorously when they get one — but not Beverly; she didn't even whimper. Hospital doctors examined her more closely. They decided that she really is a "painless" baby suffering from "indifference to injury, of congenital origin"; she cries only when hungry or angry. It is a rare condition (first described ten years ago by Johns Hopkins Neurologist Frank R. Ford), probably due to a defect in the central nervous system. No cure is known.

Last week Beverly's mother, Mrs. Victor Smith, wife of a Firestone employee, took the baby home with a lot of advice from the doctors. She must watch Beverly constantly: the baby might break a bone and continue using it until it could not be set properly; she might develop appendicitis without nature's usual warning of pain. Spanking her to make her more careful about hot stoves and knives would do no good; she wouldn't feel it. A life without pain will be a perpetually dangerous life for Beverly. — (Time.)

\*\*\*

## Physician, Blame Thyself

(From Time Magazine)

Most diseases are caused by microbes and viruses — but some can be blamed on tactless doctors. Denver's Dr. Frank Rodney Drake believes that a whole group of illnesses should be labelled iatrogenic,\* or doctor-caused. These illnesses are the kind that most doctors blame on the patient's mind and call psychosomatic (Time, Oct. 6).

Dr. Drake, now studying iatrogenic illness for the University of Colorado's School of Medicine and the Colorado Psychopathic Hospital, reported some preliminary findings in the *American Journal of the Medical Sciences*.

Clumsy doctors are one of the chief causes of chronic invalidism, according to Dr. Drake. Repeated examinations for organic disease may scare the patient half to death, suggest that he must have some rare and fatal complaint that puzzles the medical experts.

Some of Dr. Drake's case histories:

A 32-year-old woman suffered from anxiety that made her heart beat erratically. Her doctor told her: "You may have had such a severe heart attack that you barely escaped death." Then he gave her digitalis. She ran out of money buying digitalis, and got no better. The second doctor she went to told her: "You have angina pectoris," and advised a hospital. Psychiatric treatment finally cleared up the "heart trouble."

The patient, a married woman suffering from "nerves," was told that removal of her "toxic thyroid" would solve all her troubles. The operation failed to cure her nervousness, which

turned out to be caused by an unhappy marriage.

A 23-year-old girl spent two years in bed after a series of doctors told her that she had (1) high blood pressure, (2) a heart murmur, (3) rheumatic fever, (4) tuberculosis, (5) brucellosis (undulant fever). Psychiatric treatment finally got her out of bed.

Dr. Drake concludes that general practitioners, especially country doctors, do a far better job than most because they know each patient, his background and his particular emotional problems. At causing iatrogenic illnesses, city specialists are the worst offenders.

\*From the Greek: *iatros* (physician) and *gen-* (producing).

\*\*\*

## War on Blood Clots

(From Newsweek)

TO prevent one of the gravest of postoperative complications — embolisms (clots) that often block the veins and lung arteries — doctors at the Lahey Clinic, Boston, have carried out a quiet, five-year anticlot campaign. Results, as reported in the *New England Journal of Medicine* by Drs. James A. Evans and John F. Dee, are encouraging. In some 56,000 major operations, performed in that period by Lahey Clinic surgeons at the New England Deaconess and New England Baptist Hospitals, there were only 238 embolism cases.

The Lahey treatment, as described by the two Boston doctors, includes:

Teaching bed patients to wiggle their toes and feet 1,000 times every day, and to press the soles of the feet against the foot of the bed, if possible. This simple exercise, faithfully carried out, is credited by these doctors as being largely responsible for clot prevention.

The use of anticlotting chemicals, heparin and dicumarol, together with a careful check of the clotting time of the blood, and of its supply of the natural clotting chemical, prothrombin.

Elastic bandages 24 hours a day on the legs of all patients with varicose veins until they are out of bed.

Vein-tying operations in special

cases, such as elderly, debilitated patients, those with severe liver or hemorrhagic diseases, and those resistant to both heparin and dicumarol.

Getting patients out of bed as soon as temperature has returned to normal and the surgical department permits.

\*\*\*

## Dental Moving Day

CAN a human tooth be transplanted from one jaw socket to another?

Scientists have accomplished this feat in animals. But up to now, when man loses a molar he has had to resort to bridgework or dentures.

At the annual conference of the University of California Dental College Alumni, Dr. Harland Apfel of San Pedro held out, for the first time, some hope for the successful transplanting and growth of the human tooth.

In the last two years, Apfel claimed he has moved new teeth to old gaps in the mouths of 33 patients, with only two failures. In six cases, at least one new tooth is now so solidly planted that it has withstood daily chewing for more than a year. Twenty-five other patients have transplanted teeth in various stages of growth. All are in the 12-19 age group. For the present, Apfel said, mature and elderly people will have to get along with "store" teeth.

Apfel's process, as described, is simple. The "seed," or bud, of one of the four wisdom teeth is extracted and moved to the socket from which the original tooth has been pulled. The trick lies in making the new tooth part of the living tissue of the lost tooth's socket.

\*\*\*

Dr. P. J. Olson, University of Manitoba, was elected president of the Agricultural Institute of Canada, Winnipeg branch, at the annual meeting of the association, held in Winnipeg. W. S. Frazer was elected vice-president of the association, held in Winnipeg. W. S. Frazer was elected vice-president; H. A. Craig, secretary, and E. Robertson, treasurer.



The above scene was taken on the main street of Wetaskiwin during the first week in May. It illustrates flood conditions prevalent in many parts of Alberta at that time.

## More Paint Sprayers In Saskatchewan This Year

REGINA. — Six mobile spray painting units are now fully complete, ready for this summer's job of painting Saskatchewan's farm homes and buildings. The units were started last year to relieve the prevailing shortage of painters, whose work is badly needed by 78 percent of the province's farm buildings.

Although four of the units, each comprising a jeep, house trailer and equipment trailer, were placed on the road last summer they had not been completed. Pressure of orders had necessitated sending them out as soon as possible, the minister explained.

He urged farmers to place their orders for spray painting jobs with the spray painting branch, department of reconstruction and rehabilitation, before spring so that routes and schedules could be drawn up for summer operations.

Formation of the spray painting branch followed a government survey of the province's farm buildings, which revealed that 38 percent of the buildings had never been painted and 40 per cent had not been painted within the past 10 years.

A single experimental unit was constructed in 1946 and demand for its services proved overwhelming. That winter and the following summer six more units of an advanced design were projected. Efficiency of the crew was upped 50 percent with use of the new equipment, the minister said.

Swarming over a farm house and barn the four-man crew can complete a job, including two coats and trim, within three days.

...

## Timely Tips For Chicken Raising

IF you expect to raise and sell those baby chicks, keep these things in mind:

Regardless of the size, have no more than 400 chickens in a single house. Overcrowding is a cause of retarded development, poor quality and serious outbreaks of disease.

Chicks like fresh air but draughts are fatal. Don't guess about temperature — use a thermometer. Use wheat straw, and lots of it, for floor litter, and clean the floor often. Never allow feed troughs or hoppers to become empty.



D. M. YORK

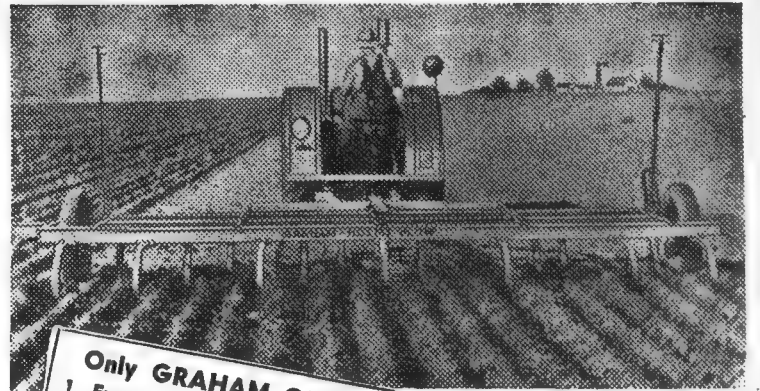
The Graham-Hoeme Plow Company Inc., of Texas, announces the appointment of Mr. Donald M. York as Sales Manager of the Alberta branch of the Company, with headquarters in Calgary.

## Dr. Sinclair President A.I.C.

The Agricultural Institute of Canada has announced that Dr. R. D. Sinclair has been elected President of the Institute for 1948-49. Dr. Sinclair is Dean of the Faculty of Agriculture and Professor of Animal Husbandry at the University of Alberta, Edmonton.

Four Directors have also been elected to the Institute for two-year terms. They are, for British Columbia, J. C. Hackney, Vancouver, Canadian Director of Farm Market Relations Incorporated; for Alberta, F. N. Miller, Olds, Principal of the Provincial School of Agriculture at Olds; for Saskatchewan, Dr. L. C. Paul, Saskatoon, Professor of Extension, University of Saskatchewan; for Eastern Ontario, Dr. T. M. Stevenson, Dominion Agroscologist, Central Experimental Farm, Ottawa.

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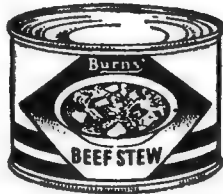


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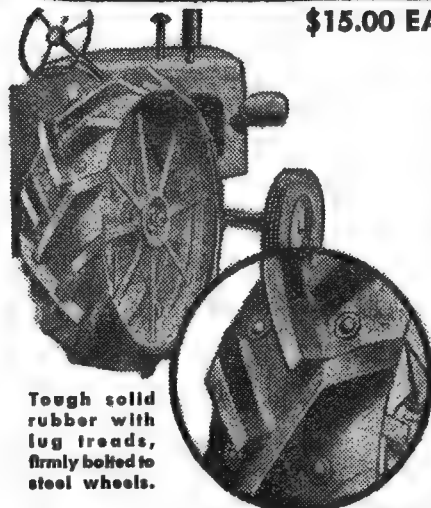
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## Harness Racing Comeback

A VETERAN harness race horse owner and driver recently predicted that harness racing is fast coming back to its own in Western Canada. He predicts we may soon see harness racing at all the Class "A" Fairs in Alberta, Saskatchewan, and Manitoba.

There is no doubt the sport is fast regaining its popularity. Many youthful horse-race fans have never seen a harness race, but they will within the next few years.

# COLOR SPORT FROM THE SPECTRUM

By HENRY VINEY, C F C N SPORTS EDITOR

Right now there is the Mid-West circuit that operates along the Goose Lake line in Saskatchewan, and north to Kerrobert, Wilkie and Unity and into Alberta. There is a Saskatchewan tie-up known as the Carrot River Valley circuit. It includes

Prince Albert, Melfort, Tisdale, Nipawin, Wadena and possibly half a dozen other towns. Another circuit includes Moose Jaw and Regina and has a tie-up with Manitoba harness horsemen.

This year as in past years Saskatoon will sponsor a meeting. Calgary will feature harness horse races August 11th to 14th. Camrose dates are August 3rd, 4th and 5th, Lethbridge, Sept. 4th and 6th. There are to be additional meetings at High River and Claresholm. In British Columbia the harness race enthusi-

asts of Ladner will sponsor a meet. They have joined a circuit organized in the Pacific Northwest, and at least 50 horses will take part in the Ladner meeting.

Here are some of the men responsible for the circuit revival of the once famous sport:

H. G. Dainard is the big operator in the Carrot River circuit. He has a string of 12 horses on a farm at Nipawin.

Alex Green at Prince Albert has a small but strong stable, which he races in Saskatchewan and then ships to Ontario for fall meetings.

Beatty Brothers of Yorkton and Gibbs Brothers of Lumsden are known in Western Canada, wherever the harness race-horses perform.

Jim Kealey has one of the best stables in the west, and to maintain the high standard of horses he owns, he has built one of the best half-mile tracks in the West, right across from his barns. It was Jim Kealey who bought Battle Axe for \$38.00 and went on to win more than \$18,000.00 with him. Battle Axe won 66 races for Kealey, raced for four years, and then was sold for \$3,500.00.

Gibbs Brothers raised Direct Battle, he was trained by Kealey. He took his mark, 2.01, starting in 8th position at Lexington, was seventh in the home stretch, and came on to win against a fast field. William Direct also was raised on the Gibbs farm at Lumsden, Saskatchewan, he won 16 out of 19 starts.

Dr. Isman of Sintaluta raised three good horses. They were Guy Hal, 2.06½; Hal Riggs, 2.06; and Jessie Riggs, 2.08.

The biggest little man in harness racing in Joe O'Brien, a 130-pound New Glasgow, Nova Scotia, Canadian. The 30-year old driver was the talk of the harness race world last year when he scored 128 victories in 81 nights. This year O'Brien is driving for a man known to everyone who follows the harness horses, the great Sep Palen. Last year O'Brien was proclaimed North American driving champion. He was the Johnny Longden, Eddie Arcaro, or Steve Donahue of the harness race world.

### Big Baseball Season

NOW its baseball time in Western Canada. Hockey players of a few weeks ago are turning to the diamond pastime. Alberta has a Big-Four league with two teams in Edmonton, and two in Calgary, just a step behind organized professional ball. Winnipeg, together with Brandon, is organizing a first-class loop, and a club from south of the border might be included. Tournament Baseball holds sway in Saskatchewan, but around Regina, they play pretty fair league ball.

The Crownsnest Pass country, and the Kootenays engage in almost as much baseball rivalry in the summer as they do in hockey during the winter.

And would you be interested in what it costs to put a well-dressed ball player on the field? A good uniform costs \$52.00, shoes (spikes) \$20.00, a glove \$20.00, and sweat-shirt and sliding-pads bring the total to more than \$100.00. At one time — it's before our time — you could buy a ball uniform for from \$12.00 to \$18.00.

Times certainly have changed, haven't they! . . .

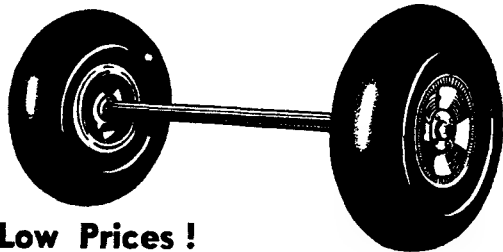
One of the best things in the world is to be a boy; it requires no experience, but needs lots of practice to be a good one.

## AIRPLANE TIRES - TUBES - WHEELS

Make up your own Trailers, Farm Wagons, Etc.

Brand New Stock

at Exceptionally Low Prices!



### SIZE 950 x 12

These tires are 31" high and will carry about one ton.

Complete unit including tire, tube, wheel and bearings . . . \$32.50  
Heavy Duty Axle . . . 21.80  
Spare Tire . . . 6.50  
Spare Tube . . . 3.00

### SIZE 1225 x 12

A real heavy duty set-up. Tire is about 37" high and will carry from 1½ to 2 tons.

Complete Unit including tire, tube, wheel bearings and stub axle \$38.80  
Extra Tire . . . 7.50  
Extra Tube . . . 3.50

FULL RANGE OF OTHER SIZES IN STOCK — WRITE US YOUR NEEDS.

Dealer Inquiries Invited.

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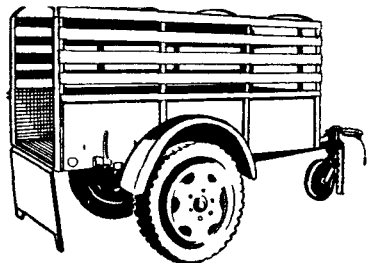
TRUCK BOXES

## TRAILERS

TRAILER PARTS

There's Big Savings on Everything Listed!

### One Ton 2-Wheel TRAILER



Steel or oak box, size 4' x 7½', complete with 24" oak racks, 750 x 20 tires.

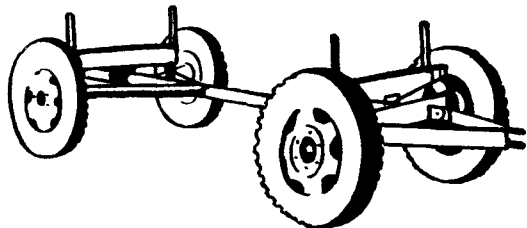
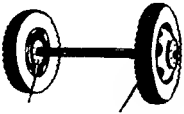
SALE PRICE . . . \$175

With 600 x 16 tires . . . \$165

### AXLE ASSEMBLY

Complete with hubs, brakes and 750 x 20 tires and tubes.

SALE PRICE . . . \$124.50



ALL PRICES F.O.B. CALGARY

### 4-WHEEL HEAVY DUTY TRAILER

All-steel construction. Capacity 6 tons. Mechanical brakes, extension reach. 750 x 20 tires.

SALE PRICE . . . \$324.50

### 4-WHEEL FARM TRAILER

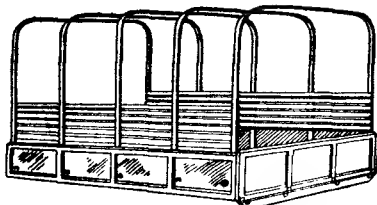
Capacity 2½-ton. Extension reach. 600 x 16 4-ply tires

SALE PRICE . . . \$199.00

### BRAND NEW STEEL TRUCK BOXES

Box is 7½ x 12½; height to bows 7½ 6". Has pressed steel cross members with oak sills and hardwood floor with steel covered joints. 15" steel sides and 24" oak racks. Built-in tool box.

SALE PRICE . . . \$124.50



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AUTO ROBES — Pure wool in attractive check designs. Red, blue, green, maroon, yellow, black. Regular price is \$8.95. Our Price . . . \$6.95

STEEL TOOL BOXES — were made for ammunition but are ideal for tools. 29"x9"x9" . . . \$1.49  
22"x9"x9" . . . \$1.29  
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GAS MASKS — New. Made for the Canadian Army. Ideal for treating grain or any dusty job. Our Price . . . . .50

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WRENCHES — New box end wrenches made by Vlecheck Tool Co. Six to set from 3/8" to 1". Our Price . . . \$4.49

TARPS — New, 16 oz. chemically treated. Complete with eyelets and ropes. 9x12 . . . \$16.25  
11x16 . . . \$25.50  
16x18 . . . \$39.95

PEARL ENAMELWARE — Potato pots, 3 gal. . . \$1.59  
14" oval roasters . . . \$2.29  
3-gal. preserving kettles . . . \$2.29

## RIBTOR SURPLUS SALES

605 - 2nd St. E., CALGARY

## In Nature's Wonderland

## When Fledglings Fly

By KERRY WOOD

(Author of Three Mile Bend, Birds and Animals of the Rockies,  
A Nature Guide for Farmers.)

IT is flying time for fledglings again, which makes topical a pertinent question: why do youngsters leave home?

In the case of Robin, Junior, and his two or three young brothers and sisters, it's mostly a matter of food. Perhaps a little discontent, too, because the young birds are not convinced that Mama and Papa have been doing their best to keep the nest adequately supplied with worms. The youngsters feel that Pa spends too much time at singing. They do not understand that his songs are necessary, serving a melodic notice to all other robins in the neighborhood that this territory around Papa is private property. In other words, Papa's song is a "vocal fence" erected around the home region.

The impudent youngsters are not entirely satisfied with Mama's tender administrations, either. It appears that Ma has her favorites, jamming her collection of worms down the nearest throat without looking out for the needs of young Quill-wing who has been crowded to the back of the nest. Ma seems foolishly sentimental about the largest of her offspring, young Robin, Junior.

## The Young Rebel

Hence the moment arrives when all this dissatisfaction comes to a climax. It is Robin, Junior, who leads the revolt. Robin is the sturdiest of the young family, and because of his greater size he possesses the greatest hunger. He is always hungry, no matter how much food grabbed from the beaks of his harassed parents or snatched from his sisters and brothers. Robin, Junior, always has a vacancy in the department of the interior, and of late he starts perching on the edge of the nest and chirps to tell the world about his starving state.

Suddenly Papa appears on a nearby fence post, a worm dangling from his beak. Papa pauses there, upset to see Junior on the rim of the nest. It may occur to Pa that young Robin is getting to be a big bird. Perhaps this realization makes Papa feel old, and he pauses there on the fence post and speculates sadly about life, time, and worms he used to know. During this pause Junior becomes impatient; he has spotted that worm in Papa's beak and wants it.

What happens next is an instinctive flutter of immature wings. Young Robin is suddenly launched into the air, veering unsteadily towards Papa's worm. He misses it by approximately four yards, landing with a thump upon the lawn.

Papa is astounded! Hear his frantic chirping, calling for Mama to come at once. In all probability, his worm will be dropped during the excitement, much to the voluble annoyance of the young ones still in the nest.

Then Mama comes bustling on the scene. As usual, Mama has her say.

"There!" she shrills in the robin equivalent of our speech. "I can't even trust you to keep an eye on the children! What's happened now?"

Papa protests, but Mama does not wait to hear him out. Mama flies down to the lawn and runs towards Robin, Junior, scolding him and praising him all in the same breath. Fortunately, Mama has hung onto her beakful of worms. Junior eagerly

greeted her, his yellow-edged beak widely agape. Mama promptly gives him her load of food, every single scrap of it. This causes a bitter outburst of protest from the nest.

"There goes Ma again, favoring Junior! If we want to get in on that grub, we'd best get out of here right now!"

## Soon An Empty Nest

This moral indignation sends perky little Robina up to the edge of the nest. Again that awkward, instinctive wing action, and the next moment Robina is down on the lawn too. She squawks loudly over her momentous accomplishment, while Papa practically dances on his tail from excitement and worry.

"How're we going to get them back?" cries Pa. "Just how can we get them back into the nest?"

"Never mind that!" snaps Mama. "Get busy!"

She goes trotting across the lawn. One ear is cocked for worms, the other hears the shrill complaints from the nest. By this time the remainder of the brood are perched on the edge, nerving themselves to try the high dive.

Soon the whole family of fledglings are down on the lawn. Mama and Papa are fussed and proud and anxious. They try to hunt worms, watch their children, and keep an eye out for enemies all at the same time.

At this moment Robin, Junior, decides to try a second flight. Abruptly he flaps the half-developed wings and surges away. A little altitude is gained, then Robin bangs head-first into a boulevard spruce and sprawls to a see-saw stop on a branch. Junior's spurt of exertion has made him hungry once more. A fly chances to come close to his perch, so Junior makes a violent lunge at the insect with beak gaping to its widest opening. He tumbles off his branch and whams into another perch lower down, and by some lucky miracle the fly goes into the gaping mouth and is promptly swallowed. This achievement stimulates Robin's ambitions. Forthwith he starts hunting his own food.

Soon Junior understands why Pa and Ma spend so much time standing alert on the lawn. There are enticing sounds coming from the region of the grass roots. Junior watches Papa pull a juicy worm from the ground. Before Pa can jerk the creature clear of its earthly tunnel, Robin rushes in and grabs hold of the worm and finishes the task himself. From then on Junior thinks it's a cinch: he can catch worms! And he does succeed in nabbing one after an hour of honest toil. During that same hour he also collects a beetle, a slug, and a lofty opinion of his own latent talents.

A few brief days later Junior is actually earning his own way, independent of help from Pa and Ma. This independence has been hardly noticed by the parents, busy catering to the voracious appetites of the more backward members of their brood. Junior is still a member of the family, but as he gains confidence in his abilities he wanders farther afield and pays less attention to the chirruped orders from Mama and Papa.

Robin Junior is a big bird now. Perhaps he doesn't know it yet, but he has left home. The world is his adventure.

RHEUMATISM YIELDS  
TO SPECIALIZED SYSTEM  
OF TREATMENT

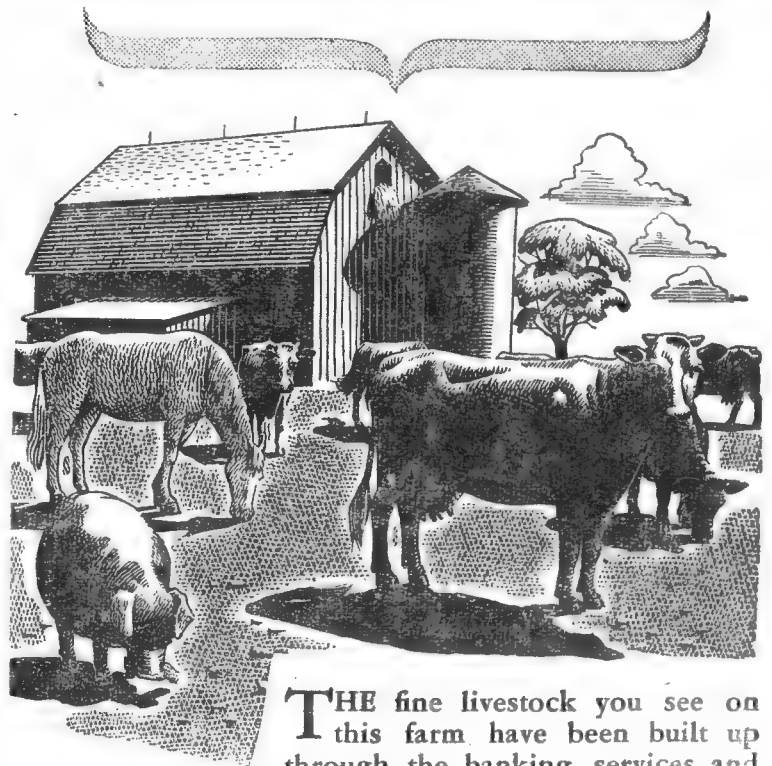
Excelsior Springs, Mo., May 31. — So successful has a specialized system proven for treating rheumatism and arthritis that an amazing new book will be sent free to any reader of this paper who will write for it.

The book entitled, "Rheumatism," fully explains why drugs and medicines give only temporary relief and fail to remove the causes of the trouble.

The Ball Clinic, Excelsior Springs, Mo., has perfected a specialized system of treatment for rheumatism and arthritis combined with the world fa-

mous mineral waters and baths. This new system of treatment is fully described in the book and tells how it may be possible for you to find freedom from rheumatism.

You incur no obligation in sending for this instructive book. It may be the means of saving you years of untold misery. For writing promptly, the Clinic will send their newly combined book entitled, "Rheumatism — Good Health, Life's Greatest Blessing." Address your letter to The Ball Clinic, Dept. 506, Excelsior Springs, Missouri, but be sure to write today.

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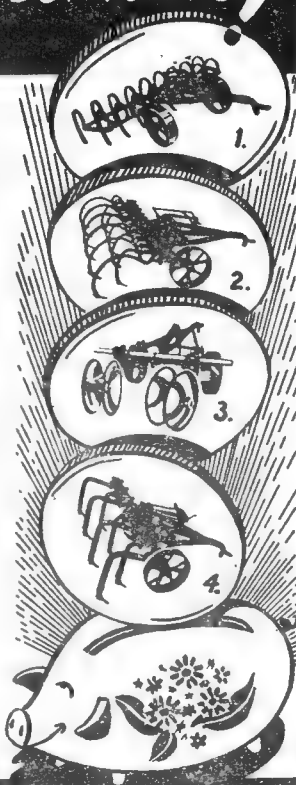
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See your **WINCHARGER Dealer** or  
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CALGARY or EDMONTON



## The Human Comedy

"All the world is mad, save thee and me;  
And sometimes I despair of thee!"



### Circumstantial.

In Plymouth, Mass., a charge of intoxication was filed against Church Organist Edward Ward, who had aroused the suspicion of police by rendering the *St. Louis Blues* on the Unitarian Church bells.

### Half a Loaf.

In Chicago, M. J. Lovell, director of the National Association of Shirt and Pajama Manufacturers, bit his lip and reported that pajama sales average only half a pajama per man per year—a situation he described as "inadequate."

### Life of an Artist.

In Phoenix, Ariz., hospital attendants ministered to Doris Elaine Edwards, who had thrown herself into a new dance routine and wound up inside the bass drum.

### Hospitality.

In Kansas City, Landlord Oren W. Breidenthal was hauled to court by building inspectors, who had found four families living in the basement of his house, five families on the first floor, five families on the second, six families in the attic, six families in the barn, and one in a trailer on the lawn.

### Ultimatum.

In Penang, Straits Settlements, bookmakers vengefully threatened to go on strike unless the police quit arresting them.

### Recipe.

In St. Helens, Lancashire, Soft-Drink Merchant James P. Forrester was fined £60 and costs for dispensing cocktails which proved to contain a fillip of chloroform.

### Round Peg.

In Memphis, Dill Pickle quit his job in a grocery store and went back home to Rolling Fork, Miss.

### Severest Critic.

In Chicago, Virginia Whitcomb won a divorce when she reported that she had helped her husband write four songs which he had then dedicated to four other women.

### Adaptable.

In Monterey, Calif., Joe Gilliland lost his auto license after three arrests for drunken driving, was presently jolted into the ditch while doing some drunken horse-and-buggy driving.

### Archeology.

In Hamilton, Wash., hard-working burglars finally completed a tunnel through the vault floor of the State Bank of Hamilton, which had been out of business for four years.

### Bargain.

In Camp Robinson, Ark., 400 War Assets Administration huts which had found no buyers at \$30 each were sold at auction at an average of \$49.99.

### Any Questions?

In Wellington, Ariz., Flight Instructor Larry C. Spain, demonstrating "How Not to Fly an Airplane" cracked up.

### The Choice.

In Montreal, Truck Driver Armand Lafleur testified that he had been offered \$700 to run over somebody, but had refused for fear of losing his driver's license.

### Best Intentions.

In Memphis, Joseph Henry Wadlington explained to the police that he had stolen a typewriter because he needed it to re-write some of the Bible.

### Hot Honk

In Glendale, Calif., the flames that enveloped L. L. Biggs's garage short-circuited the starter of his car and jolted it out to safety, short-circuited the horn and awakened Biggs.

### Dog's Life

In Los Angeles, Harry Hetzler insisted to police that it was impossible for his car to have been stolen because (1) it was parked just outside, (2) his dog was in it and would have barked, and (3) Ranch Hand Carl Thomas would have heard the noise and called him; the police patiently explained to Hetzler that (1) the car was in Yuma, Ariz., (2) the dog was still in it but sitting quietly, and (3) Ranch Hand Thomas had been arrested as the thief.

### Scuttlebutt

In Kansas City, whoever broke the window of the Sound Radio Service store ignored the four genuine radio sets on display, scuttled off with only dummy.

### Fielder's Choice

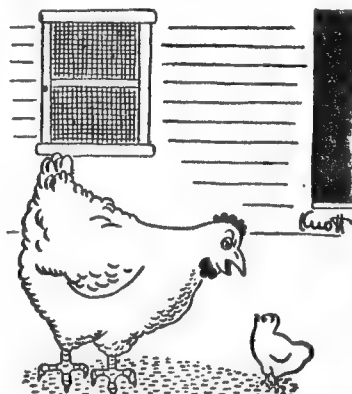
In Pacific Beach, Calif., Stan lost a wheel off his trailer, watched it roll into the hands of a stranger who quickly loaded it into his car and drove away.

### Test Case

In Nashville, George Willis Sleehousebergerdorff applied for a job as a typesetter.

### Chain Reaction

A sneeze caused Mrs. Elsie A. Halprin of Los Angeles to lose control of her car. It hit a parked auto which bounced 25 feet into another car. When an ambulance picked up Mrs. Halprin to take her to a hospital, it was wrecked in a collision and the attendant was injured. Finally another ambulance transported Mrs. Halprin safely. "Gesundheit!" said the police.



"You'll go to bed without your supper if I hear another peep on of you."

**More people drive...  
More people want .  
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A PRODUCT OF  
GENERAL MOTORS



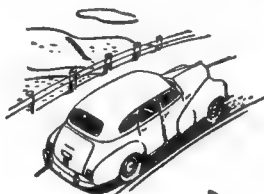
Yes, Chevrolet has long been the favorite motor car of farm owners. Men and women know that it gives more value—that it alone offers **BIG-CAR QUALITY AT LOWEST COST!** And this is truer than ever today with the advent of this newer, smarter, finer Chevrolet for 1948.

You're wise to choose a new 1948 Chevrolet for *fullest* value and for *fullest* motoring enjoyment around the farm, in town, or on tour. Mighty good evidence of this is the fact that *more people* drive Chevrolets, according to official registrations, and *more people* want Chevrolets, according to seven independent surveys, than any other make of car. And complete proof of its greater worth will be forthcoming when you see, drive and ride in this

new Chevrolet. You'll find it alone gives **BIG-CAR QUALITY AT LOWEST COST**; and that means Big-Car beauty, Big-Car comfort, Big-Car performance and dependability at *unequalled savings* in purchase price, operation and upkeep. You'll find it's first in popularity—first in demand—because it's *first in value!*



You'll prefer the smart, tasteful Big-Car styling of Chevrolet's luxurious Body by Fisher—the first choice for fine coachcraft—found only in Chevrolet and higher-priced cars.



You'll also be more pleased with the Big-Car performance, endurance and reliability of Chevrolet's Valve-in-Head Engine—the Thrift-Master engine—and remember, Valve-in-Head design is exclusive to Chevrolet and higher-priced cars.



You and your family will enjoy Big-Car comfort and safety, too—thanks to the Knee-Action Gliding Ride, Unisteel body-construction and Positive-Action Hydraulic Brakes—another combination of features found only in Chevrolet and higher-priced cars.

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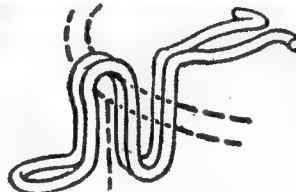
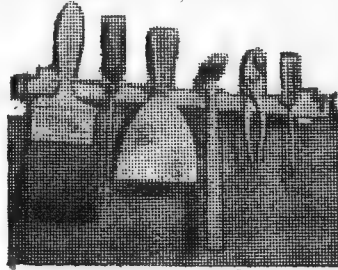
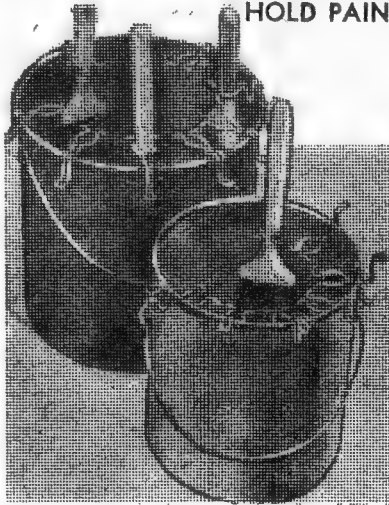
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## Handy Devices

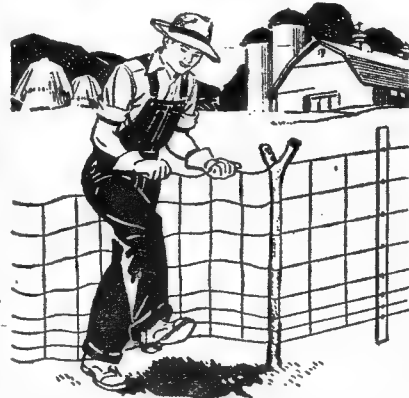
By Courtesy of the "Popular Mechanics Magazine."

WIRE CLIPS SNAP ON RIM OF CAN TO  
HOLD PAINTBRUSHES OFF BOTTOM



WIRE clips that snap on the rim of a can hold paintbrushes safely inside the can during painting and storing. The spring clip grips the brush handle, holding the bristles away from the bottom of the can thus preventing spreading. A double bend in the clip provides a narrow slot for small cans and a wider slot for large cans. The clips can be used also for holding tools in the workshop by slipping them on a strip of wood fastened above the bench.

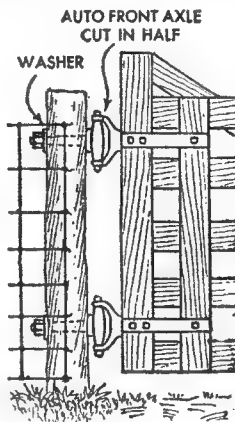
**KINKS REMOVED FROM WIRE  
FENCE WITH FORKED STICK**



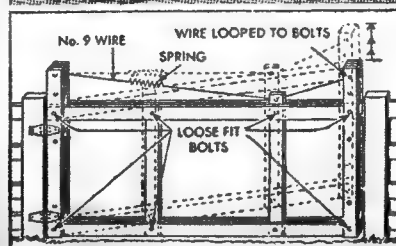
ONE man can take the kinks out of woven-wire fence that has been crushed by snowdrifts or trampled by cattle if this method is used. Select a forked stick that is about 8 or 10 inches longer than the height of the fence and set the top strand in the crotch. Holding the stick in a vertical position, place a foot on the lower strand and use both hands to pull up on the top strand.

**CAR AXLE PROVIDES GATE HINGES**

THE front axle from an old car will make a strong and serviceable pair of hinges for a heavy farm gate. Cut the axle in half and drill three holes in each of the halves to bolt them firmly to the gate uprights. Either large washers or a piece of flat iron drilled with registering holes should be placed on the opposite side of the uprights to serve as a bearing plate for the nuts. Then, bore holes through the post to take the wheel spindles and fasten them in place rigidly with wheel nuts and washers.



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WHEN this unusual stock gate is unlatched, the end automatically will rise several inches off the ground enabling it to clear rocks, snow and other obstacles when swung open. If provided with two latches, one mounted a distance above the other, the gate may be left closed and in the raised position to provide a creep for smaller animals while still confining the larger ones. It is constructed and strung with barbed wire as shown.

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**Fertilizer Coated Seed**

Coating cereal seeds with fertilizer before planting is a new trick being tried by British soil fertility experts. In tests carried out at the East Malling research station yield increases of 110 pounds per acre with wheat and 250 pounds with oats were obtained by coating the seed with di- and tri-potassium phosphate compounds which contain both the essential elements of potash and phosphate. The seed was soaked in a five per cent solution of these chemicals then dried at approximately 22 degrees Centigrade before planting. Wheat seed was damaged by solutions stronger than five per cent, but barley and oat seed tolerated up to 30 per cent.

# Farm and Ranch Housewife

DEVOTED TO THE INTERESTS OF THE RURAL WOMEN OF WESTERN CANADA

## No Charity Given

By FLORENCE WITZ

ELLEN paused at the window to watch her husband, came in hand, make his way in from the barn with a pail of milk. Her mind was on the desk, with its papers covered with figures. Ellen and Floyd had spent hours going over and over their calculations. They all came to the same result: their expenses for the year would be more than they could produce.

She took the pail from Floyd as he came in. "I've been wondering," he said, "if we couldn't sell old Bess to that new farmer. He might need another cow."

"Bess wouldn't bring enough to make the difference and we'd have to buy milk," she said.

He sighed, "I was just thinking." Yes, Ellen knew, just thinking. They'd been turning and twisting for the last four months, since Floyd became crippled with arthritis and couldn't put in a crop.

### It's The Tops



This flared little shortie tops everything! Pattern 4945 cuts a coat becoming to you and all your clothes! Swagger flare, rounded front edge are tops in style, too!

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Send your order to Farm & Ranch Review, Pattern Dept., Graphic Arts Bldg., Calgary, Alta.

Floyd glanced at the clock. "When do you expect Irene and Howard?"

"I guess we'll have to ask Howard for the money." How she dreaded it. Howard and his little black books!

She remembered the day Irene and Howard were married. Amid the festivity, she had come across Howard in the pantry, carefully writing in a little black book.

"I keep a strict account of every cent I spend," he explained. "So far," he consulted the record, "this marriage has cost me one hundred and twenty-eight dollars and thirty-five cents."

Ellen had been disgusted. After the honeymoon when Irene and Howard settled down to house-keeping, there had been a set of black books for Irene. Every cent she spent, every loaf of bread, every spool of thread, had to be recorded. But Irene seemed happy enough. Indeed, her marriage appeared to grow stronger with the years. Ellen used often to wonder how she could love a man like that.

"Maybe he has good points I don't see," she told Floyd.

Now Floyd asked, "Did you put away the cream for Irene and Howard?"

"Yes," Ellen answered from the pantry.

"I'll get another bag of potatoes." He took his cane and limped toward the barn.

Ellen did the dishes and skimmed the cream. As she filled the jar she thought of all the quarts of cream and bags of potatoes they'd given Irene and Howard.

Once she had said to Floyd, "Howard keeps track of every cent Irene spends, but he never hesitates to take all he can get and hold out his hand for more."

"I know," Floyd said, "but I couldn't bear to be stingy with food."

So through the years a stream of things from the farm had gone to them, strawberries and cherries in the spring, potatoes and pork in the fall.

At two o'clock Irene and Howard drove up in their fine new car. Howard certainly wasn't hard up.

Irene was flushed with happiness at being home. Howard seemed glad to see them. Ellen made tea and brought apples and doughnuts.

Finally Floyd cleared his throat. "There's a little matter I wanted to bring up," he said.

Ellen could feel her heart thudding. Howard sat back and looked at Floyd, his eyes narrowing.

Floyd explained about the impossibility of making ends meet with his bad leg, keeping him from work.

"Oh, Howard," Irene cried, tears in her eyes, "you can help them."

"You know I never give charity," Howard answered, coldly.

"Charity!" Ellen's face was white.

"However," Howard's hand went to his pocket, "I don't see why you should need help." He looked at Floyd. "I don't suppose you have kept a list of the stuff we have had from you?"

Floyd, staring, shook his head.

"I didn't think you would," Howard said, with satisfaction, "but I have. Everything — each year in a separate book."

"I — we — meant them as gifts."

"I don't take something for nothing, neither," Howard said. "But I thought it might wait until you needed it. I can give you a cheque today for the full amount."

Howard put on his glasses and consulted the little black book. "Over eighteen years, not counting today's, which I haven't put in yet, it's two thousand, two hundred and fifty-four dollars, exactly."

There was silence. Ellen looked up and saw Irene's eyes fastened lovingly on Howard. At last she understood.

□ □ □

### Food For Thought

You don't need an expert to tell you that your appetite is closely related to your emotions. But doctors point out that it is true if you are happy and serene, you are better able to digest your food than if you are emotionally upset. "Laugh and grow fat" is a cheerfully flippant phrase, but one which is backed by some scientific proof.

On this same basis, scientists comment, family disagreements, stories of children's misdeeds during the day, cajoling, lecturing, excitement and threats, of punishment should be forgotten at meal time.

□ □ □

### Delayed Reaction

It may take several years before it becomes apparent how well a child has been fed, doctors say. This is especially true in giving cod liver oil. Cod liver oil is remarkably effective in preventing rickets, but it acts mainly upon the bones and teeth where the effect is not always fully apparent until years later.

Because of this, mothers are often lax about giving it regularly. Unless cod liver oil is given in the full dose every day the child may not develop a strong, well shaped body. His resistance to disease may also be lowered.

□ □ □

## The Dishpan Philosopher

THESE sweepstakes now!

It's not for me to say "to be or not to be." I know the money they would raise would help out in a lot of ways. The hospitals would all expand and give a bigger helping hand. While orphanages and the like, depending on a lucky strike, would open all their doors up wide so all in need could pass inside. Of course a lot of people say that governments could find a way all worthy causes to finance without a wicked game of chance. And probably, I guess, that's so but governments are awful slow.

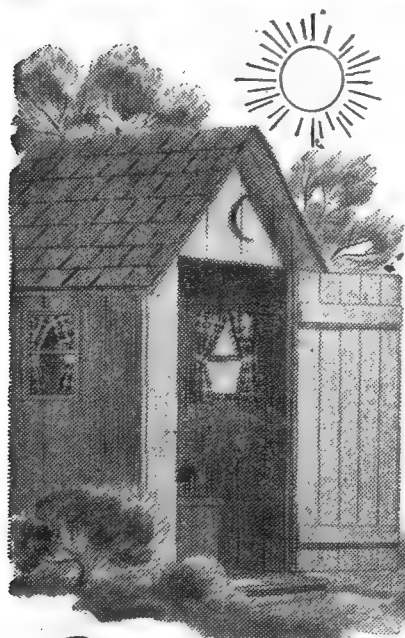
But if, as powers that be declare, all gambling's bad, why then I swear that farms right across this land should all be outlawed out of hand. The farmer gambles with, by far, the biggest kind of stakes there are

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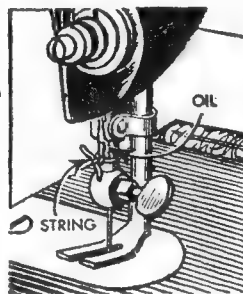
\*Never dissolve lye in hot water. The action of lye itself heats water.

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## Household Hints

By Courtesy of the "Popular Mechanics Magazine"



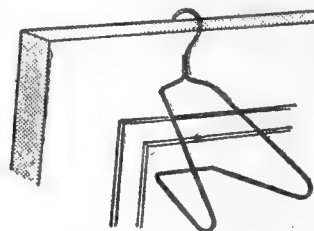
### STRING ABSORBS EXCESS OIL FROM SEWING-MACHINE HEAD

TO prevent oil from spotting material after a sewing-machine head has been lubricated, tie a short length of cotton string tightly above the needle bar, as shown in the drawing. The string will absorb the excess oil and prevent it from seeping down to the cloth. Check the string occasionally and, when it appears to be saturated with oil, replace it.

□ □ □

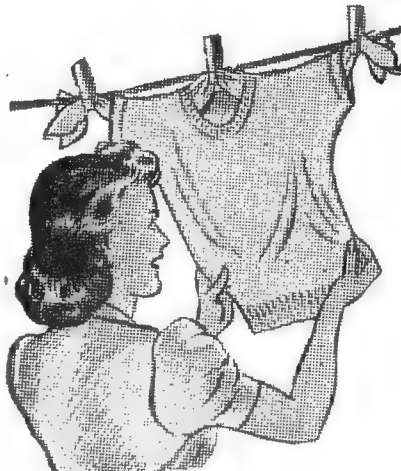
### HANDY DRYING RACK

A LIGHT wire coat hanger, bent as shown and hooked over the top of a door, provides a handy rack for drying hose, gloves and other small items occasionally washed and dried over night. Use a hanger that is painted to prevent rust stains.



□ □ □

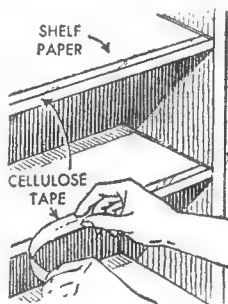
### TOWEL HOLDS SWEATER SHAPE KEEP CURTAIN MATERIAL CLEAN



IF you prefer to dry a freshly laundered sweater in the sun, it can be hung outside on a line without stretching out of shape if it is suspended with a clean towel passed through the arm holes as shown.

EASILY soiled curtain material can be kept off the floor when hemming it if a pillow case is attached to the edge of the machine to catch the work.

□ □ □



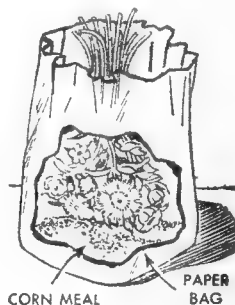
### CELLULOSE TAPE HOLDS SHELF PAPER

THUMB TACKING shelf-lining paper to cupboard or pantry shelves often results in the paper shifting and tearing at the points where it is held by the tacks. This will not occur if cellulose tape is used instead of thumbtacks. Simply apply half the width of the tape to the front edge of the paper and stick the other half to the edge of the shelf as shown. When shelving paper is used which has a decorative edging, small tabs of tape can be applied at each end and across the back to hold it.

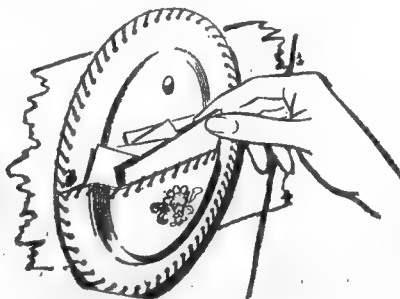
□ □ □

### ARTIFICIAL FLOWERS CLEANED WITH CORN MEAL

DUSTING a bouquet of artificial flowers is easy if you use a paper bag large enough to hold the bouquet, and fill it to a depth of about 1 inch with corn meal. Insert the flowers as shown, grasp the bag and stems and shake gently. Then remove the flowers from the bag and shake off the clinging particles of the cleaner.



□ □ □



### ATTRACTIVE HOLDER

TWO paper plates, one of them cut in half and laced to the other with colored cord, form an attractive holder for bills and recipes. A decal or picture clipped from a magazine will add a decorative touch.

# Cool Drinks On Warm Days

By LOUISE PRICE BELL

HERE are some "yummy" drinks to enjoy under the trees or on the porch. Everyone will like them, and you'll be making them over and over all summer long!



## STRAWBERRY FROST

- |  |                            |
|--|----------------------------|
| $\frac{1}{4}$ cup crushed strawberries,<br>sweetened | 1 pint of ice cream        |
| 6 tbsps. lime, or lemon, juice                       | $1\frac{1}{2}$ cups milk   |
|  | 1 quart of sparkling-water |

Place 2 tbsps. of strawberries in each of 6 tall glasses, add 1 tbsps. lime juice, a scoop of ice cream and  $\frac{1}{4}$  cup of milk. Fill glasses with sparkling-water and top with a fresh strawberry or a sprig of mint from the garden. Serve at once.

## ORANGE COOLER

- |                                       |                            |
|---------------------------------------|----------------------------|
| 2 cups freshly reamed orange<br>juice | 1 quart of sparkling-water |
|                                       | Cherries                   |

Blend orange juice and water, pour over ice in glasses and garnish with cherries.

## CHOCOLATE MALTED MILK

- |                               |                                   |
|-------------------------------|-----------------------------------|
| $\frac{1}{2}$ cup malted milk | $\frac{1}{4}$ cup chocolate syrup |
| 3 cups milk                   | 1 tbsps. sugar                    |
| 4 eggs                        |                                   |

Mix malted milk into smooth paste with  $\frac{1}{4}$  cup cold milk. Separate eggs and beat yolks well. Add malted milk paste, remainder of milk and chocolate syrup; beat or shake until foamy, pour over ice in tall glasses. Beat egg whites until foamy, add sugar gradually and beat until stiff. Pile on top.

## CHOCOLATE ICE CREAM SODA

- |                                   |  |
|-----------------------------------|--|
| 1 pint of vanilla ice cream       | 2 24-ounce bottles carbonated<br>beverages |
| $\frac{1}{4}$ cup chocolate sauce |  |

Place one heaping tablespoonful of vanilla ice cream in bottom of 8-ounce glass, then add 1 tbsps. of chocolate sauce, then another tbsps. of ice cream. Fill glass with sparkling water, stir with iced-teaspoon until well blended.

And here is a chocolate sauce recipe that is good for sodas, milk shakes, over ice cream, or almost any way you want to use it.

## QUICK CHOCOLATE SAUCE

Melt 2 squares of unsweetened chocolate in saucepan, add  $\frac{1}{2}$  cup sugar,  $\frac{1}{2}$  cup corn syrup,  $\frac{1}{4}$  cup milk, and 1 egg, slightly beaten. Stir well, then bring to simmer and cook three minutes; remove from heat and add 1 tsp. vanilla. Cool. This will keep, if any is left over.

## Souffles That Never Fall

THE souffle is a simple every-day dish, but is "misunderstood" and even shunned by many proficient cooks on account of supposed difficulties in the making. It is true that a delicate and tempting souffle sometimes shrinks before your eyes because it has not been properly cooked. A good souffle will stay up because it is cooked right through to the centre.

A souffle may be a luxury or an economy, depending on the special ingredient which gives it a name. The basis of a souffle is a sauce with well-beaten egg yolks and stiffly beaten whites which give the characteristic lightness. The sauce mixture may be made well in advance and the beaten egg whites folded in just in time to put it into the oven.

Here are a few points on making the perfect souffle.

The casserole should be greased only on the bottom. If the sides are ungreased the mixture will rise and

hold its full height. Then, after the souffle mixture is poured into the casserole, there is another trick which helps. If a teaspoon is run around, about an inch from the edge of the casserole, making a track in the mixture, the souffle will have a golden crown when baked.

A souffle should be timed to serve at its peak, but may be held for ten or fifteen minutes over hot water if it has been cooked properly. This means never higher than 350 degrees F. Low heat is essential. High temperatures toughen the egg and cause the souffle to fall. Oven-poaching with the dish set in a pan of water, in a moderate oven, will keep the souffle soft and smooth. If a crispy brown crust is preferred the casserole may be set in the centre of the oven so that the heat will flow around it evenly and baked at 300 degrees F.

It is wise not to peek until the souffle has been in the oven for about forty-five minutes.

Souffles may be cooked in a greased top of a double boiler set over hot water, but they will not be brown when cooked by this method.



Rogers' Golden Syrup is a pure, wholesome product of the sugar cane. Children love the rich, full flavor . . . and it's nutritious, too. Housewives delight in its variety of uses for cakes and cookies, on hotcakes or waffles or in candies and frostings.



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**Country Diary**

★ ★ ★  
★ ★ ★

THE winging bird, the trilling song, the tinted cloud, the freshness of green grass, the fragrance of growing things are ever-new joys to us who have suffered the dearth of a long winter of icy winds and deep snow. We have travelled very slowly to this blessed peak of springtide. In early June there is a special sweetness in the air when my favorite wilding, wolf-willow, begins its blooming. It blossoms in its own time, and when it does, something definite is added to the season, an assurance perhaps, that summer is very close. Its presence is as apparent by night as it is by day, and now it is putting forth its wealth of bright, heavily-scented yellow stars among its sage-like silvered leaves. In the lives of those who have left their prairie homes for new ones in a gentler clime, there must be memories of roadside wolf-willow bushes on a golden June morning, when all

was right with the world. I have a thought to pack a box of its fragrant beauty for my friend at the Pacific Coast, a return for the holly he sends me at Christmas from his treasured garden, — a sort of interchange of home products.

Warm-hearted, bounteous June is a month of myriad voices, many precious perfumes. Poplar leaves, plump and sticky, honey-sweet after rain, roll open and send forth downy "cotton" which floats in the air and whitens the ground with its fluff. It alights on everything, but a shower washes it off and settles it. After a rain we rush out to see what is happening in the garden. The wet, dark earth smells heavenly, green leaves are polished, bird-notes sound liquid and soft, and there are pearly green onions and the first scarlet balls of radishes, a treat for lunch.

There are the dandelions, splashing their bold, rich yellow on the roadsides and in the fence-corners. These outlaws from cultivated gardens are gay fellows indeed; with fabulous antics they send their seeds parachuting over the countryside, like ghostly aeronauts on an outing. I have a friend in town, a lawnmaker, and fine June evening sees him on his knees as he bends himself sternly to one purpose, the abolition of the dandelion. A fine, likeable man, but it would be useless to try and point out to him, being such a bigoted lawnmaker, the beauty of these golden sequins that Spring has sewn upon her green gown.

Immaculate handkerchief lawns, embroidered by cut-outs of petunias and zinnias are for streets of stuccoed cottages. What the prairie farm needs is something bolder; shrubs, shade trees, unregimented masses of bold flowers in herbaceous borders and a strip of grass. I know that the farm with an attractive yard belongs to the man whose house and barns are painted, whose pigs and chickens are enclosed in tight fencing, his cattle in their lawful pasture and his tractor and machinery in a weather-proof shed.

How good the prairie world is in June, except for this war mania which stretches out its tentacles into the quiet places. Radio and newspapers are misleading and disturbing in their comments and suggestions. We shut off the one and use the other for rugs for the baby chicks.

□ □ □

## Suggests Care For Pressure Saucepan

Here are a few suggestions of interest to homemakers who have pressure saucepans. Because of their price, pressure saucepans are rightly considered longtime investments and should receive the best of care.

Never pour cold water into a dry heated saucepan. The sudden change in temperature may crack it. Never put the indicator weight or gauge in water, and be certain, too, never to drop either of these parts. Avoid striking the edge of the saucepan with anything that might cause nicks. Never set the cover on a hot surface.

Remember there should always be water, or some liquid, or juice, in the bottom of the saucepan to form the steam for cooking the food. If the cover does not come off easily, DO NOT force it. This indicates the saucepan still contains steam and should be cooled under cold water until the cover comes off easily.

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• MISSES' HOODED COATS (Not illustrated) Sizes: 8, 10 and 12-years. Colors: Transparent blue, green and natural. Give second color choice, please. **\$1.69**

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• CHILDREN'S HOODED COATS (Not illustrated) Sizes: 2, 4, 6 and 6X-years. Colors: Transparent blue, green and natural. Give second color choice, please. **\$1.49**

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• RAINCAPES (Not illustrated) Misses and Children's sizes: 4, 6, 6X, 8, 10, 12-years. Colors: solid sky blue, transparent blue, green and natural. Give two or more color choices, please. **\$1.49**

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Blue Heaven, opaque. 38-ins. wide.

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Bright blue, opaque. 49-ins. wide.

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Black and white nautical design on opaque. Blue, green or yellow. 38-ins. wide.

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Lovely clear film plastic. Smart floral design in blue or black. 38-ins. wide.

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Lovely "ARISTOFLEX" plastic kerchiefs in a large size for women or girls to match the above coats. Size 28x40-ins. Colors: Blue, green, red, black, natural.

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## IN THE SWIM



There is no lack of variety in beach fashions this year. Here are three of the latest creations by top Canadian designers. The dressmaker type (upper left) is nylon printed twill carrying a gay sailfish design. A neat one-piece number in crisp nylon taffeta with contrasting white piping is shown (upper right). The cool-looking black and white two-piece suit (below) is another nylon twill which should prove highly popular with those who find sunbathing as exhilarating as swimming. Nylon's ability to keep its shape, its quick-drying and lightweight properties, make it an ideal fabric for beach wear.

## Discourage Food Prejudices In Your Child

By RUTH PECK McLEOD

"PLEASE don't order lamb for Tommy. He's just as I am about lamb — he never has been able to eat it. My mother and sister were the same way, and my son has inherited this distaste," said Tommy's mother to her hostess as the three were about to enter the hotel dining room.

She was mistaken, however. We are not born with either a liking or a disliking for any particular kind of food, but it is all too easy for a father or mother to prejudice a child against a very tasty and nourishing dish simply because that parent does not like it. For this reason a special effort should be made to talk little about one's own dislikes and to convince children that it is not hard to acquire a taste for almost any food. It will help if you tell them short stories to show how valuable this ability can be.

Parents are mainly responsible for children's food tastes, for boys and girls generally learn to like best those things that are served to them regularly. We have evidence of this in the dietary habits of the various nations. The Italians "love" spaghetti, because they have been brought up on it; the Chinese prefer rice, because that

cereal has always predominated in their daily diet; and, for the same reason, the Brazilians delight in their black beans.

Children should be encouraged — never forced — to eat whatever is set before them, but it should be remembered that small, daintily served helpings make a meal inviting; and should the child come back for another serving, the second one should be even smaller than the first. It is well, too, for the mother to experiment with various new culinary ideas. We should never give our children the impression that our methods of preparing foods are the only proper ways of cooking, for this lays the foundation for food prejudices.

It is interesting, as well as educational, to have the boys and girls know something about the foods of foreign lands. A number of magazines now occasionally have recipes from Mexico, Italy, Spain, and some other countries. Even very young children will take real delight in helping to follow one of these recipes and later — at the table — in entering into a discussion of the dietary customs of the particular country represented.

The child should have explained to

him that the first time a person partakes of a new food it sometimes seems peculiar in flavor but that gradually a taste for it can usually be acquired. Recall and relate how you disliked a certain fruit, vegetable, or cooked delicacy the first time it was given to you and how you later learned to like it very much.

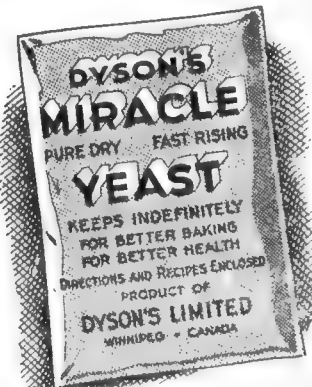
Good manners, too, the child should be taught, really demand that one should eat whatever is put before him. It is quite embarrassing for a hostess, after having prepared what she considers a delicious meal, to have her guests unable to experience any enjoyment. She does not know that it is because they have been accustomed only to a very limited variety of foods or seasonings. One may often listen to a group of women and hear such statements as: "My husband will not touch baked fish; it has to be broiled," or, "I can't induce John to eat any kind of green salad; he says he is neither a cow nor a horse." Such remarks indicate food prejudices carried over from childhood.

Some mothers may like to lessen the difficulty of having their children accept unquestioningly a variety of foods by having their plates served in the kitchen. If this is done, however, in no case should the servings be too bountiful; and should there be a helping of anything for which a child is known to have little liking, that should be very small indeed. Each child should be allowed a second helping of anything desired only when his plate is empty. By this plan the boys and girls become accustomed to eating any wholesome food that is served to them.

Cook rice in as little water as possible.

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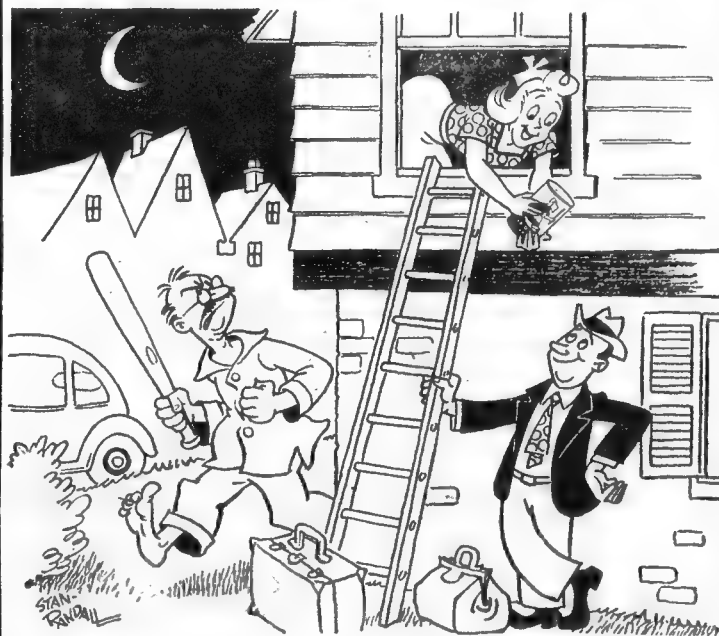
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**Keeps in the cupboard**

## Don't Be a Sloppy Dresser



Attention to small details gives Movie Star Janet Blair a 'chic' appearance.

By HELEN FOLLET

**M**EN notice everything. Don't think they don't. Even the man who is a sloppy, careless dresser himself, admires the girl who is beautifully groomed, perfectly put together. He will show disapproval of messy make-up and hair that has gone even a little bit stringy. Artistic disarray may sound cute, but it doesn't get a girl any place.

Daintiness is an indication of a fastidious mind. You experience this delightful feeling when you step out of the tub, or from under the shower, and have got yourself into nice fresh undies and stockings. You are clean and glowing, a self-respecting woman. To skip the daily bath is to forego an institution that is of definite good-looks value. Nothing like it to keep the complexion fresh and of good texture, to put energy in the heels, star-shine in the eyes.

Keeping one's clothes in apple-pie order is something of a job, especially

for the career girl, but it must be done. Your good looks reporter knew a girl who lost a grand suitor because she had a coat button fastened on with a safety pin. He said he knew that, when they were married, there would always be piles of dirty dishes in the sink. But maybe he didn't love her quite enough to overlook so slight a fault.

To be dainty and well groomed it is necessary to fight off the deadly B O which can afflict even a fastidious woman if she happens to have sizzling nerves. A deodorant or anti-perspirant should be always at hand, just in case.

Then there are other details — a purse that isn't messy, shoes that are in prime order (no run over heels), gloves and neckwear that are spotless. We won't mention the slip that shows! That is man's pet peeve. He rages at the sight of it. And it does look pretty slovenly, as all the sisters will agree.

## Color In The Home

**W**HEN redecorating your rooms this year choose colors carefully. Avoid shades that may become monotonous. This is particularly true of wall papers with large patterns or very unusual designs. Be conservative, but do not go to the opposite extreme and limit yourself to one color scheme for your whole house. If you want to try unusual color combination in your house that is used only for short periods.

If your room has a northern exposure, select warm colors such as shades of red and yellow. For a room facing south, blue and green are ideal colors. For the other rooms select colors from either class depending on the size of the room and the amount of light in it. A large room should be done in darker or deeper colors to make it appear smaller, while a small room can be made to appear much

larger by using light shades in decorating. Avoid using dead white. White is a very cold color and does not give your room the warm and restful feeling you are striving for. In arranging your color scheme remember the laws of nature — the black earth, green leaves and pale sky. Use your darkest color on the floor and your lightest on the ceiling, with the in-between color for the walls.

## Oven Croquettes

Make your favorite croquette mixture — potato, chicken, lamb or beef. Shape into cylinders, roll in sifted dried bread crumbs, then in beaten egg, and finally in crumbs. Heat a little shortening in a shallow pan until very hot. Place the croquettes in pan and bake in a very hot oven. Turn once while they are baking and they will be golden brown on both sides. Simple, digestible, economical.

## Aunt Sal Suggests

The summer is before us,  
With many tasks to do,  
So here's a group of handy hints  
To be of help to you.

There was a time when those books we call "the almanacs" were treated with a full measure of deference, but nowadays we are apt to laugh at them. When I found one in my post office box the other day I slipped it aside, but now I'm glad I didn't destroy it without reading for there were several very timely tips in the pages for the busy housewife and that includes you . . . and you . . . and you and me!

Yes, my almanac tells me that to remove indelible stains from a garment soak for about five minutes in denatured alcohol . . . give it a brisk rubbing if the stain is stubborn. Then finish off by a rinse in mild soapsuds. And here's another cute hint. It tells us that we can cut crotched lace into smaller pieces and not have it ravel itself away if we first stitch crossways with the sewing machine . . . two rows of stitching of course and cut 'tween the rows. I've brought the sewing machine to my rescue many times when I didn't want hand knitting to ravel out, so of course the same thing proves true with hooked work too. And it isn't household helps alone that we find in the old-fashioned almanac, no, indeed. Just read this definition of imagination and see if you can find a better one. "Imagination is something that sits up with a woman when her husband or children are out late at night." (Ain't it the truth?)

So much for the almanac! . . . When calling on a sick friend I noticed that she had placed a glass bowl over her bedside clock. She said it deadened the sound of the ticking that was bothersome to her nerves . . . I'd seen many things under glass but never a clock before . . . My brother who used never to be able to wake up in the morning, put his alarm clock on top of a tin plate and that roused him!

Especially to us rural dwellers whose houses do not boast electric lights in abundance, electric flash lights are the best investment ever. If you do much sewing try to keep a flashlight of your very own in the sewing machine drawer. It is a grand aid for threading the needle. And have you ever used a flashlight as a mending egg for darning socks? A bit extravagant on the batteries I grant you but saving on the eyesight if you do much darning after night. We can buy more flashlight batteries, but we can't buy new eyes. It would be well if women would remind themselves of that obvious truth every so often.

A friend of mine who was an inveterate coffee drinker used to state emphatically, "Oh, I never drink tea except when I have a headache." Now that sounds funny, to those of us who dote on the national English beverage. But if you do look on tea as having medicinal powers alone then take it this way: Drop about three cloves into a cup of black hot tea. Be sure it's black (no milk in it) and hot!

Of course tea can be served cold, too . . . ice cold we mean. I just taught myself to like it this way a few months ago and now it's a real booster to me during the hot old summer days. The easy way I concoct mine is to cut up a lemon into a quart fruit jar. Put some ice in the jar, too, and a stingy bit of sugar. Then

when a meal is over I pour the remains from the tea pot into this jar and place it in the ice box. Many a welcome little sip I take during the day. (What would you call me? A tea blubber, is that it?)

It's been years since I baked an apple sauce cake. I got a hankering for one last week. Here's the recipe I used. As you'll see it calls for nuts and raisins and my cupboard lacked both at that time so I substituted coconut and dates and it worked out fine.

### Apple Sauce Cake

$\frac{1}{2}$  cup butter or mild shortening, 1 cup white sugar, 2 eggs (beaten light), 1 cup chopped raisins,  $\frac{1}{2}$  cup chopped nuts, 2 cups sifted cake flour, 1 tsp. baking soda,  $\frac{1}{2}$  tsp. nutmeg, 1 tsp. cinnamon, 1 cup unsweetened apple-sauce. Cream butter and sugar, add beaten eggs; sift the dry ingredients together and add them to first mixture alternately with the applesauce. Dredge the fruit and nuts with a little flour and add last. I like this cake best baked in a loaf pan. Takes an oven of moderate heat almost one hour. Cool and frost with white icing with powdered sugar. Note: Use half of it for pudding with hot sauce then frost the rest for supper.

I found this a pleasant change from light cakes and then, too, if some member of the family remarks, "It's kinda heavy," you can truthfully reply, "It's supposed to be that way." (Nice to have that alibi occasionally.)

Realizing from long experience how quickly bread dries out in the hot weather, I appreciated the cute trick a bride I know uses. She cuts the heel of the loaf quite thick then fastens it back onto the loaf with toothpicks before wrapping it up in waxed paper. In a big family the bread doesn't get a chance to dry out but it does in a small family, especially if they are not heavy bread eaters.

And it was from a very new housekeeper, too, that I was introduced to some of the ways vaseline can ease the homemaker's chores. Not only can vaseline remove many stains from clothing, but it prevents stains and roughness on your hands. This bride had skin that chapped so easily yet she used to anoint her hands generously with vaseline before she began her dirty jobs. For dry skins and dry scalps a vaseline rub is very beneficial.

Years ago I learned that handy trick of placing small woolen articles in glass jars to protect them from moths, but I overheard my next-door neighbor say she uses this trick to protect her precious nylon hose from getting snagged. It just takes a tiny jar you know to hold a pair of hose. So there we have it again . . . something under glass. First a clock . . . now a pair of stockings. What next?

We often exclaim, "What next!" when we hear of something very new. That's what I said when I heard of these paper window curtains. After I saw them I thought they were a grand idea and now I have a pair in my bedroom, and I think they're the clear rig for summer. I chose a yellow flowered pair that went nicely with the pale yellow walls. They cost so little yet they're sturdy and dust-resistant too.

I heard an elderly woman once remark derisively of a poor housekeeper, "She can't even mix an egg nog without a recipe." I cringed when I heard her remark, for at that time . . . neither could I! Just in case you can't either, here are the proportions I now use for that old-fashioned health drink . . . *Egg Nog*.

One egg (separated), 2 tsp. sugar,

one cup chilled milk,  $\frac{1}{2}$  tsp. vanilla and a quick dash of nutmeg. (There is no law against using some other spice.) Combine all the ingredients except egg white. Beat this stiff and fold in last of all. By Bye for now . . . and every good wish!

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# A WEDDING... once in-a-lifetime event for the bride



Be It Formal or Informal  
There Are Many Details To Arrange.

By ANN BARRETT

**H**ERE comes the Bride! What a happy event this is, when the strains of the Wedding-March peels forth from the church organ as the bridal procession moves slowly up the aisle toward the altar, and the radiant bride leaning lightly on her father's right arm, is a picture of loveliness, we shall not soon forget!

'Getting married' is "once in a lifetime event" and the question, is how does one achieve a perfect wedding and not be too much worried over details such as planning a trousseau when the budget is small. Well, dear reader, it is not the amount of money you spend, as how it is expended that will determine the success of a wedding... an acceptance of what you have to spend and a happy resolution to make the best of it, will be your keynote to follow. Planning for a wedding, even for a small one, requires a good deal of energy, and shopping is tiring to most people, so good advice is not to do too much at one time, take things gradually and above all, keep rested.

## Budget Book

We know one bride-elect who listed everything she required in her Budget Book with the price, so that she was able to know how much she was spending and able to afford. It was quite a comprehensive affair and contained a page for Trousseau Requirements; one for Invitations, Reception and Refreshments, etc., and Household needs.

Be it a small or big wedding, there are the invitations to be sent out to friends and relatives, and they may be either engraved, printed, or a handwritten note. Then there are the "Thank you" notes to be acknowledged before the wedding for gifts received, or as soon as possible afterward.

## Trousseau Requirements

Careful expenditure is advisable for the trousseau requirements, which of course can always be adjusted to individual tastes and needs, however, it will be in good taste to have a few well-made articles of apparel, rather than a lot of cheap clothes which you will not be able to wear out, since styles change so rapidly.

Some girls will need more, some less, but the following few suggestions will help to form a basic-guide in planning a trousseau: — Wedding-gown and veil, dress and hat, suit, afternoon and dinner dresses, a couple of sport skirts and sweaters, blouses, cloth coat, sport shoes and formal shoes, gloves, negligee, bed jacket, warm dressing-gown, and all the other lingerie items and stockings. See that your suit-case and overnight bag are in good shape, and an umbrella, rubbers and raincoat will be useful, if it should rain when you are on your honeymoon trip. Some of these items can be eliminated in accordance with the season and the section of the country you live in.

## Household

The quantity and quality of the household items required will depend

mostly on the size of the home the bride is going to live in and the amount of the Budget expenditure. If the bride-elect is a popular member in her community, she no doubt will have "showers" given for her by her friends that will add to her linen, kitchen and bathroom requirements.

However, she will be looking about to purchase quite a few useful pieces, and the following list may help her to choose what she needs:—tablecloths and napkins, luncheon and tea sets, sheets and pillow cases, blankets, comforters, bedspreads, draperies, face and bath towels, bureau scarves, bath mats, dish and glass towels, dish cloths, pot holders, polishing cloths, tea cosy covers, and the practical kitchen utensils, which is an important "must" in every young bride's home.

## Reception and Refreshments

If you are considering having a reception following the wedding ceremony and are planning a simple wedding menu in the home it is amazing what Mother or another member of the family can turn out in the way of tasty refreshments for this occasion. There could be a tasty chicken salad with assorted sandwiches served, topped off with ice cream, coffee, small cakes and a piece of the wedding-cake. For the toasts to the bride a delicious fruit punch made with a variety of luscious juices is appropriate to serve.

## Groom's Average Budget

For though the larger part of the wedding expense devolves upon the bride's family, the groom's expenditures, nevertheless, amount to quite a bit before the honeymoon is over.

In helping him to plan his expenses in connection with the wedding, the following may be helpful:—He pays for the marriage license, the wedding ring, the minister's fee, gift to the bride, gift to the bestman, (and ushers if any). Flowers for his bride, her mother, his mother, and boutonnieres for bestman and himself, and of course his own personal wardrobe. The bride's family assumes all other expenses.

## Honeymoon

No bride will expect her groom to provide an expensive and extravagant bouquet far beyond his means, nor take an expensive honeymoon trip, if his finances are limited. Time and money may even restrict the couple taking a long trip, but even if it is only a long week-end, remember it is your "honeymoon!"

Could anything be more enchanting than, "Setting Sail on Life's Horizon Together!"

It is from this important time we leave you, and hope that our few suggestions will fit into your special problems and solve them according to your individual needs. In this changing world with changing modes of thought and ways of living, it is better to follow the customs that call for simplicity and unostentation.

**VEAL CORN BAKE**

- 2 pounds breast or shoulder of veal
- 2 tablespoons flour
- $\frac{1}{2}$  teaspoon salt
- $\frac{1}{4}$  teaspoon pepper
- 3 tablespoons fat
- $1\frac{1}{2}$  cups cream-style corn
- $1\frac{1}{2}$  cups milk

Remove bone and cut meat in half-inch slices. Combine flour, salt and pepper and roll meat slices in mixture. Melt fat in frying pan and saute meat until well browned. Arrange pieces in greased casserole. Combine corn and milk and pour over meat. Cover and bake in a moderately slow oven, 325° F., for  $1\frac{1}{2}$  hours. Remove cover and continue to bake  $\frac{1}{2}$  hour longer. More milk may be added during cooking, if necessary. Yield: Six servings.

**MEAT SOUFFLE**

- 3 tablespoons fat
- 4 tablespoons flour
- 1 cup milk
- 3 tablespoons fine dry bread crumbs
- 1 egg, separated
- $\frac{1}{2}$  cup cooked meat, ground
- Salt and pepper to taste

Melt fat in top of double boiler, add flour and blend. Add milk slowly and stir constantly until very thick. Add crumbs, beaten egg yolk and meat to sauce. Mix well and season to taste. Fold in stiffly beaten egg white. Turn into 2 well-greased custard cups. Steam 35 to 40 minutes or until a silver knife, inserted in the centre, comes out clean. Yield: two servings.

**JACK HORNER PUDDING**

- $2\frac{1}{2}$  cups canned plums with juice
- $1\frac{1}{2}$  cups sifted all-purpose flour
- OR  $1\frac{2}{3}$  cups sifted pastry flour
- $\frac{1}{4}$  cup sugar
- $\frac{1}{2}$  teaspoon salt
- 2 teaspoons baking powder
- 3 tablespoons shortening
- 1 egg
- $\frac{1}{2}$  cup milk

Pit the plums, halve and add juice. Place in a shallow, covered saucepan and bring to boiling point. Sift together the flour, sugar, salt and baking powder. Cut in shortening until mixture has a fine even crumb. Combine well-beaten egg with milk and add to dry ingredients. Mix lightly. Drop by spoonfuls over plums. Cover and allow to cook slowly without removing lid for 25 minutes. Serve hot or cold. Six servings

**CREAMY CUSTARD**

- $\frac{1}{4}$  cup sugar
- 3 tablespoons cornstarch
- $\frac{1}{4}$  teaspoon salt
- 2 cups milk
- 2 egg yolks
- 1 teaspoon vanilla
- Few grains nutmeg

Combine sugar, cornstarch and salt. Heat milk to scalding point in top of double boiler. Add sugar mixture gradually, stirring constantly until mixture thickens. Continue cooking for 5 minutes. Beat egg yolks, add a little of the hot mixture and blend well. Return to hot mixture, stirring constantly and cook for 1 minute. Remove from heat, add vanilla and nutmeg. Chill thoroughly. Beat custard with beater before serving. Six servings.

**APPLE CRUMB PUDDING**

- 2 egg yolks
- 4 tablespoons sugar
- Dash of salt
- $\frac{1}{4}$  cup fine bread or cracker crumbs
- $\frac{1}{4}$  teaspoon spice (cinnamon or nutmeg) or dash of cloves
- 2 egg whites
- 3 medium apples
- 2 tablespoons sugar

Beat egg yolks, add the 4 tablespoons sugar and salt, beat. Add crumbs and spice then fold into stiffly beaten egg whites. Peel, core and slice apples; place in baking dish. Sprinkle with remaining 2 tablespoons sugar and top with egg mixture. Bake in a moderately slow oven 325 degrees F., for 35 minutes or until apples are tender and top is delicately browned. Six servings.

**CREAM PUFFS A LA RHUBARB**

- $\frac{1}{2}$  cup water
- $\frac{1}{4}$  cup shortening
- $\frac{1}{2}$  cup sifted all-purpose flour
- $\frac{1}{4}$  teaspoon salt
- 2 eggs, unbeaten

Bring water to boiling point, add shortening and melt. Sift together the flour and salt. Add all at once, stirring vigorously. Cook, stirring constantly, until mixture leaves sides of pan. Remove from heat and cool. Add eggs, one at a time, beating vigorously, after each addition, until mixture is smooth. Beat thoroughly for 1 minute. Drop heaping tablespoonfuls on a greased baking sheet 2 inches apart. Bake in a hot oven 400° F. for 15 minutes. Do not open oven door during this period. Reduce heat to 375° F. and continue baking for 30 minutes. Cool. Cut small slice from top, fill cases with thick, stewed rhubarb, garnish with creamy custard, and replace top slice. Six servings.

**JAM POCKETS**

- 2 cups sifted all-purpose flour or  $2\frac{1}{4}$  cups pastry flour
- $2\frac{1}{2}$  teaspoons baking powder
- $\frac{1}{2}$  teaspoon salt
- 2 tablespoons sugar
- 1 egg
- 1 cup milk
- 2 tablespoons shortening, melted
- Jam

Mix and sift flour, baking powder, sugar and salt. Beat egg, add milk. Make a depression in the flour mixture, pour in egg and milk, then melted fat. Stir as little as possible in mixing. Turn half the mixture into well greased muffin tins, add 1 teaspoon jam to each muffin and cover with remaining batter. Bake in a moderately hot oven, 375 degrees F., for 25 minutes. Makes 1 dozen medium-sized muffins.

**FRUIT DAINTIES**

- 1 egg
- $\frac{1}{2}$  cup brown sugar
- 1 cup chopped dates
- $\frac{1}{2}$  cup chopped walnuts
- $\frac{1}{4}$  tsp. salt
- 2 tsps. lemon juice
- Shredded Cocoanut

Beat egg slightly, and combine with remaining ingredients except lemon juice. Cook over hot water until thickened (about 20 minutes). Add lemon juice and allow to cool. Form into balls and roll in cocoanut. Yield: 2 dozen balls.

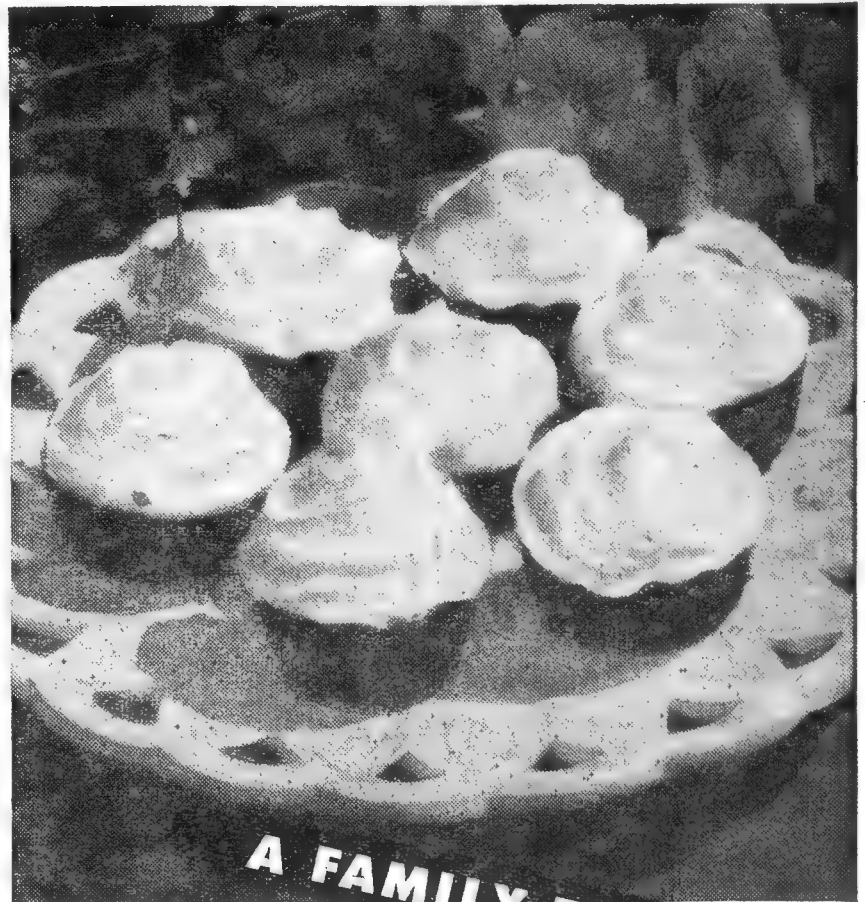
**DATE CHEWS**

- 1 cup pitted dates
- 1 cup white sugar
- $\frac{3}{4}$  cup cake flour
- 1 cup walnuts
- 2 eggs, well beaten

Put in pan on greased paper. Cook 25 minutes and cut in squares.

dreamy... creamy...

# Gingerbread Cup Cakes



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**GINGERBREAD CUP CAKES**

- $\frac{1}{2}$  cup melted shortening
- $1\frac{1}{4}$  cups molasses
- 1 egg, beaten
- $2\frac{1}{2}$  cups sifted flour
- 1 tsp. Magic Baking Soda
- 1 tsp. cinnamon
- 1 tsp. ginger
- $\frac{1}{2}$  tsp. cloves
- $\frac{1}{2}$  tsp. salt
- $\frac{3}{4}$  cup hot water
- 1 tsp. Magic Baking Powder

Combine shortening and molasses and add egg. Stir until well blended. Mix and sift dry ingredients and add alternately with the hot water. Bake in 24  $2\frac{1}{2}$ " cup cake pans in moderate oven (350° F.) for 30 minutes. Blend one 3-oz. package of cream cheese with enough milk to make of sauce consistency. Top each serving with a spoonful.



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## Let's Explore Your Mind



1. WOMEN'S CLUB ASKS, "WHICH HAS A HIGHER AVERAGE INTELLIGENCE—THEATRE OR MOVIE AUDIENCES?"

THEATRE- MOVIES-



2. ARE PEOPLE REALLY BETTER THAN THEY WERE ONE HUNDRED YEARS AGO? YES- NO-

3. ARE YOU MORE LIKELY TO BELIEVE STATEMENTS BY PROMINENT PERSONS YOU LIKE THAN BY THOSE YOU DISLIKE? YES- NO-

Answer to Question No. 1.

1. Theatre, because anything that increases the number of people in a group, unless the newcomers are especially selected for intelligence, decreases the average intelligence of the group. And so if all children went through high school, it would lower the intelligence of high school pupils because the dull would go through as well as the bright.

Answer to Question No. 2.

2. Yes, far better. Many civilized people had slaves, the seas were filled with pirates. Even in the post-Civil War period Allan Nevins says in his magnificent "Ordeals of the Union"

statesmen, clergy, physicians, lawyers were heavy drinkers. Nearly everybody gambled. Murder attracted little attention, and gamblers had an iron grip on Congress.

Answer to Question No. 3.

3. Yes. Psychologists Saadi and Fransworth submitted to several groups 30 strong statements like the following: "There is nothing sacred about the U. S. Constitution; it should be changed as often as necessary." Far more people believed these statements if attributed to Einstein, Henry Ford, Walter Lippman etc., than to Al Capone, Benedict Arnold and other unpopular characters.

## Keep Out The Pesky Rats!

By MARY ELIZABETH LEMKE

**I**F on entering the chicken house or on descending into the cellar for a pan of spuds we were suddenly confronted with a scurrying gray brown oversized edition of a mouse, a Norway rat in other words, we would quite pardonably scramble to the highest point available and screech in true woman fashion. But we are told we may expect to have these pests on our premises if they are allowed to continue their progress into Alberta unhampered.

Although warnings have been printed in newspapers and posted in public places, we housewives who have never seen these creatures are still inclined to think of them as belonging to some far off country of the Pied Piper or at least to leave this worry entirely to friend hubby. But it stands to reason that these rodent mammals, a common pest in almost all parts of the world, would be of grave concern to the housewife since they destroy food, clothes, damage buildings and are known carriers of disease.

They frequent sewers, garbage cans and outbuildings, and it is thus easily understood that their fur would be loaded with germs. They are direct carriers of typhus fever, rat-bite fever, bubonic plague and also carry many intestinal parasites.

They are strong agile creatures being able to run fast, jump, swim long distances and climb almost any object. They destroy grain, field crops, fruits, vegetables, clothing — almost anything it seems — and will also kill hens, chickens, turkeys or other small farm birds and animals. Owls and weasels are their natural enemies.

Reproducing rapidly, they sometimes have eight litters in one year with each brood numbering about ten. It doesn't require much arithmetic to realize how fast they multiply once they become established.

So if mice seem to be doing an unusual amount of damage make sure it is not being done by rats. Set gopher traps or large spring traps, and bait of a mixture of oatmeal and peanut butter is recommended by the Department of Public Health. If you suspect there are rats on the premises, write the Division of Entomology, Department of Public Health, Edmonton, for free poison and directions for its use.

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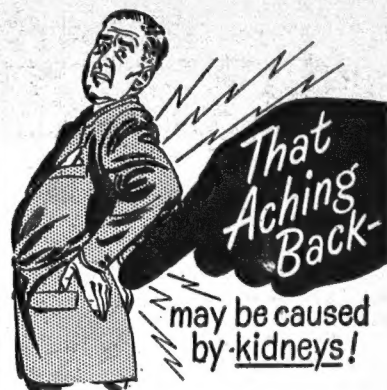
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You must have proper bowel elimination.

If you feel out of sorts, nervous, and suffer from headaches, gas, bloating, upset stomach, bad breath, lack of appetite, loss of sleep — remember — it may all be due to constipation. To relieve constipation

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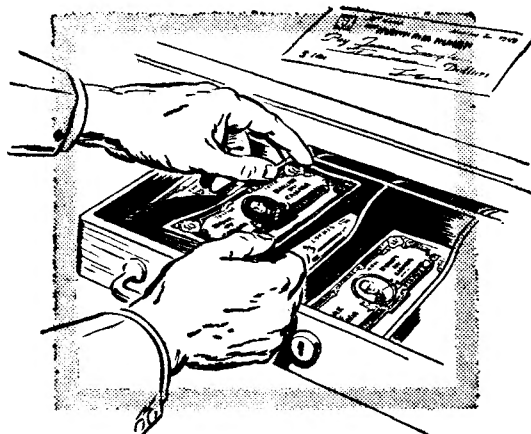
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THE Bureau of Industry and Commerce of the Province of Manitoba is this year continuing the survey of industrial resources of the Province's larger towns which it started last summer.

The survey, part of the government's long-range industrial program, is being undertaken to provide the Bureau with detailed information concerning the towns' industrial advan-

## Industry a

tages, and to help pile a complete background facts industrial development states. Results be available to information on local sites, natural resources, transporta-



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# UNDERSTANDING = MODERATION

Understanding comes to us

when we see things through the other fellow's eyes . . .

when we listen through the other fellow's ears . . .

when we consider the other fellow's point of view at all times.

It's the key to happy living together. For it leads us

to weigh our words and shape our actions for the common good.

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which leads us to choose the path of moderation in all things . . .

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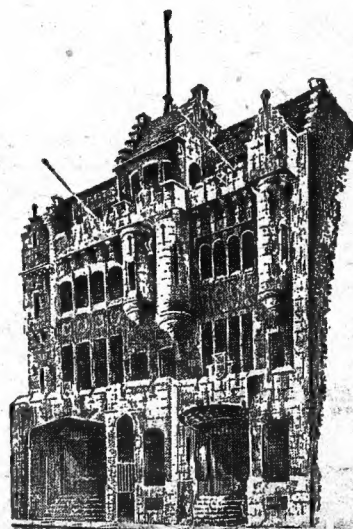
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